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CRYSTALS OF THE ALPHA 1 BETA 1 INTEGRIN I-DOMAIN AND THEIR USE

RELATED APPLICATIONS

This is a continuation of PCT/US99/23261, filed on October 6, 1999 as a continuation of prior U.S. provisional Serial number 60/103,301, filed October 6, 1998.

The entire disclosure of each of the aforesaid patent applications are incorporated herein by reference.

BACKGROUND OF THE INVENTION

A major class of cell receptors that interacts with the constituents of the extracellular matrix (" ECM") (e.g, collagen, laminin) are the integrins which are transmembrane heterodimeric glycoproteins composed of noncovalently associated α and β subunits. The integrin family contains at least $16~\alpha$ subunits, seven of which contain an approximately 200 amino acid inserted domain in their N-terminal region variously called the "I-domain" or the "A-domain".

Processes such as cell differentiation, cell proliferation and cell migration in embryonic development, as well as remodeling and cell/tissue repair events, are dependent on communication of cells with the ECM. Alpha 1 beta 1 integrin (" $\alpha1\beta1$ integrin") is a cell-surface receptor for collagen I, collagen IV and laminin. It is also known as VLA-1. Indeed, $\alpha1\beta1$ supports not only collagen-dependent adhesion and migration, but also is likely to be a critical collagen receptor on mesenchymally-derived cells that may be involved in ECM remodeling after injury (Gotwals et al.(1996), J. Clin. Invest. 97: p 2469-2477). The ability of cells to contract and organize collagen matrices is a critical component of any wound healing response. Improper regulation of $\alpha1\beta1$ integrin may result in certain pathological conditions such as fibrosis.

Moreover, there is a limited, but provocative, literature suggesting that $\alpha 1\beta 1$ may play a role in T cell/monocyte driven diseases. Anti- $\alpha 1\beta 1$ antibodies block T-cell dependent cytokine expression. Miyake et al., J. Exp. Med., 177: 863-868 (1993). Expression of $\alpha 1\beta 1$ is upregulated in persistently activated, 2-4 week old cultured T cells (Hemler et al., Eur. J. Immunol., 15: 502-508 (1985)) and is also expressed on a high percentage of T cells isolated from the synovium of patients with rheumatoid arthritis. Hemler et al., J. Clin. Invest., 78: 696-702 (1986). Chronic tissue damage results from both

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resident activated T cells, and also monocytes/fibroblasts recruited by T cell-derived cytokines. Blocking the $\alpha 1\beta 1$ -induced T cell interaction might relieve tissue damage by removing activated T cells and/or by diminishing inflammatory cytokine levels.

It would therefore be useful to design, identify or obtain potential drug candidates which would interfere with the $\alpha 1\beta 1$ integrin-ECM or T-cell interaction(s). The recent emergence of drug design to identify candidates that play a role in a physiologically relevant biological pathway has provided a useful approach for obtaining, or designing, lead compounds for drugs.

Generally, this approach requires selecting a protein target molecule which plays a role in a physiologically relevant biological pathway. Typically, once an inhibitor or agonist, natural or synthesized, is found for the target molecule, it is modified or optimized to produce a candidate with the desired properties.

In order to more efficiently design or modify a ligand, it is useful to have a three-dimensional structure for the bioactive conformation of a known ligand as it binds to the target protein molecule. Furthermore, it is valuable to understand the detailed interactions of the ligand with its target protein by examining the three-dimensional structure of the protein target in complex with its known ligand. This allows the artisan to preserve the critical interactions with the protein, while modifying candidate ligands to interact more precisely with the protein, resulting in better potency and specificity.

However, the three dimensional crystal structure of the protein target is frequently unavailable due to the significant effort required to obtain crystals of sufficient size and quality to provide accurate information regarding the structure. For example, it is time consuming and often difficult to express, purify and characterize a protein. Additionally, once the protein of sufficient purity is obtained, it must be crystallized to a size and quality which is useful for x-ray diffraction and subsequent structure solution. Thus, although crystal structures can provide a wealth of valuable information in the field of drug design and discovery, crystals of certain biologically relevant molecules such as $\alpha 1\beta 1$ integrin, are not readily available to those skilled in the art.

Furthermore, although the amino acid sequence of a target protein, such as $\alpha 1\beta 1$ integrin, is known, this sequence information does not allow an accurate prediction of the crystal structure of the protein. Nor does the sequence information afford an understanding

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of the structural, conformational and chemical interactions between a ligand such as $\alpha 1\beta 1$ integrin and its target.

Thus, there is a need for a detailed knowledge of the crystalline three-dimensional structure of the extracellular domain of $\alpha 1\beta 1$ integrin, to effectively design, screen or optimize compounds capable of interfering with the $\alpha 1\beta 1$ integrin-ECM and/or T-cell interactions.

A soluble version of $\alpha1\beta1$ integrin can be made from its extracellular region or fragments thereof. As used herein, the term " $\alpha1\beta1$ integrin" includes soluble $\alpha1\beta1$ integrin polypeptides lacking transmembrane and intracellular regions, homologs and analogs of $\alpha1\beta1$ integrin or derivatives thereof. Crystals of the $\alpha1$ chain of $\alpha1\beta1$ integrin or fragments thereof of a size and quality such as described herein, would allow performance of x-ray diffraction studies and enable those skilled in the art to conduct studies relating to the binding properties of $\alpha1\beta1$ integrin, as well as the binding properties of molecules or molecular complexes which may associate with $\alpha1\beta1$ integrin or fragments thereof.

SUMMARY OF THE INVENTION

Accordingly, the present invention is directed to crystals of the $\alpha 1$ chain of $\alpha 1\beta 1$ integrin or crystals of fragments of the $\alpha 1$ chain, of sufficient size and quality to obtain useful information about the properties of $\alpha 1\beta 1$ integrin and molecules or complexes which may associate with it. The claimed invention provides the three-dimensional crystal structure of the Cys143 to Ala340 fragment of the $\alpha 1$ chain of $\alpha 1\beta 1$ integrin, which can be used to identify binding sites to solve the structure of unknown crystals, to provide mutants having desirable binding properties, and ultimately, to design, characterize, or identify molecules or chemical entities capable of interfering with the interaction between collagen or other ligands and $\alpha 1\beta 1$.

Additional features and advantages of the invention will be set forth in the description which follows, and in part will be apparent from the description, or may be learned by practice of the invention. The objectives and other advantages of the invention will be realized and attained by the compositions and methods particularly pointed out in the written description and claims hereof, as well as in the appended drawings.

To achieve these and other advantages, and in accordance with the purpose of the invention, as embodied and broadly described herein, the invention relates to a crystal of $\alpha 1\beta 1$ integrin. More particularly, the invention relates to a crystal formed by a functional

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fragment of the extracellular domain of the $\alpha 1$ chain of $\alpha 1\beta 1$ (Cys143-Ala340), wherein the crystal has cell constants a= 34.77Å, b= 85.92Å, c= 132.56Å, $\alpha = \beta = \gamma = 90$ Å, and a space group of P2₁2₁2₁, and equivalents of that crystal. The claimed crystals of $\alpha 1\beta 1$ are substantially described by the structural coordinates identified in Table II. The claimed crystals in certain embodiments are characterized by a binding site moiety comprising Asp154, Ser156, Asn157,Ser158, Leu222, Gln223, Thr224, Asp257, Glu259, His261, His288, Tyr289, Gly292, Leu294 and Lys298. Mutants, homologs, co-complexes and fragments of the claimed crystals are also contemplated herein.

The claimed invention in certain embodiments relates to heavy atom derivatives of the crystallized form of $\alpha 1\beta 1$ integrin (143-340), and, more specifically, the heavy atom derivatives of the crystallized form of $\alpha 1\beta 1$ described above. In various embodiments, the claimed invention relates to methods of preparing crystalline forms of $\alpha 1\beta 1$, or fragments thereof, by providing an aqueous solution comprising at least a fragment of $\alpha 1\beta 1$, providing a reservoir solution comprising a precipitating agent, mixing a volume of the al \(\text{1} \) solution with a volume of the reservoir solution and crystallizing the resultant mixed volume. In certain embodiments, the crystal is derived from an aqueous solution comprising the $\alpha 1$ chain of $\alpha 1\beta 1$ (Cys143-Ala340). In various embodiments, the concentration of $\alpha 1\beta 1$ in the aqueous solution is about 1 to about 50 mg/ml, preferably about 5 mg/ml to about 15 mg/ml, and most preferably, about 10 mg/ml. The precipitating agents used in the invention may be any precipitating agent known in the art, preferably one selected from the group consisting of sodium citrate, ammonium sulfate and polyethylene glycol. Any concentration of precipitating agent may be used in the reservoir solution, however it is preferred that the concentration be about 20% weight per volume ("w/v") to about 50% w/v, more preferably about 25% w/v. Similarly, the pH of the reservoir solution may be varied, preferably between about 4 to about 10, most preferably about 6.5.

Various methods of crystallization can be used in the claimed invention, including, but not limited to, vapor diffusion, batch, liquid bridge, or dialysis. Vapor diffusion crystallization is preferred.

Additionally, the claimed invention relates to methods of using the claimed crystal, and the structural coordinates, in methods for screening, designing, or optimizing molecules or other chemical entities that may interfere with the interaction between $\alpha 1\beta 1$

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ligands such as members of the extracellular matrix (e.g., collagen) and $\alpha 1\beta 1$. Thus, the structural coordinates of $\alpha 1\beta 1$ or portions thereof can be used to solve the crystal structure of a mutant, homologue or co-complex of $\alpha 1\beta 1$ or a fragment thereof, as well as to solve other unknown crystals which associate with $\alpha 1\beta 1$ or fragments thereof.

In some embodiments, the structural coordinates of the $\alpha 1$ chain of $\alpha 1\beta 1$ (as exemplified in Table II) can be used to evaluate a chemical entity to obtain information about the binding of the chemical entity to $\alpha 1\beta 1$. The structural coordinates can be used to characterize chemical entities which interfere with the relationship between the extracellular matrix (i.e., collagen or laminin) and $\alpha 1\beta 1$ such as inhibitors or agonists. The coordinates can also be used to optimize binding characteristics, to determine the orientation of ligands in a binding site of $\alpha 1\beta 1$. One skilled in the art will appreciate the numerous uses of the claimed invention in the areas of drug design, screening and optimization of drug candidates, as well as in determining additional unknown crystal structures.

In various embodiments, the claimed invention relates to a machine readable data storage medium having a data storage material encoded with machine readable data, which, when read by an appropriate machine, can display a three dimensional representation of a crystal. The crystals displayed comprise a fragment of $\alpha1\beta1$ such as that described by the coordinates in Table II, or a crystal having a binding site moiety comprising amino acids Asp154, Ser156, Asn157,Leu222, Gln223, Thr224, Asp257, Glu259, His261, His288, Tyr289, Gly292, Leu294 and Lys298.

In other embodiments, the claimed invention relates to a method for determining a at least a portion of a three dimensional structure of a chemical entity or molecular complex by calculating phases from the structural coordinates of a crystal of a fragment of $\alpha 1\beta 1$, calculating the electron density map from the phases obtained, and then determining at least a portion of the unknown structure based upon the electron density map.

In yet other embodiments, the invention relates to methods for evaluating the ability of a chemical entity to associate with $\alpha 1\beta 1$. The methods employ computational or experimental means to perform a fitting operation between the chemical entity and the $\alpha 1\beta 1$ to obtain data related to the association, and analyzing the data to determine the characteristics. Chemical entities identified by these methods which are capable of interfering with the in vivo or in vitro association between the extracellular matrix and

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 $\alpha 1\beta 1$ are also encompassed by the claimed invention. The claimed chemical entities may comprise binding sites substantially similar to those of $\alpha 1\beta 1$, or, alternatively may comprise binding sites capable of associating with the binding sites of $\alpha 1\beta 1$.

It is to be understood that both the foregoing general description and the following detailed description are exemplary and explanatory and are intended to provide further explanation of the invention as claimed.

The accompanying drawings are included to provide a further understanding of the invention and are incorporated in and constitute a part of this specification, illustrate several embodiments of the invention, and together with the description, serve to explain the principles of the invention.

BRIEF DESCRIPTION OF THE FIGURES

Figure 1: 2Fo-Fc electron density map for a representative region of the $\alpha 1$ I-domain crystal structure, contoured at 1Sigma.

Figure 2: Ribbon representation of the fold of the $\alpha 1$ I-domain molecule. The arrow points to the MIDAS binding site.

DETAILED DESCRIPTION OF THE INVENTION

In order that the invention described herein may be more fully understood, the following detailed description is set forth.

The present invention relates to a crystal of a soluble fragment of the extracellular domain of the $\alpha 1\beta 1$ integrin. Specifically, it relates to a crystal of a soluble protein comprising the sequence from Cys143 to Ala340 of the $\alpha 1$ chain of $\alpha 1\beta 1$ integrin ("s $\alpha 1\beta 1(143-340)$ "), the structure of s $\alpha 1\beta 1(143-340)$ as determined by X-ray crystallography, and the use of the s $\alpha 1\beta 1(143-340)$ structure and that of its homologs, mutants and co-complexes to design, identify, characterize, screen and/or optimize candidate inhibitors or agonists of $\alpha 1\beta 1$ activity.

A. **DEFINITIONS**

The term $\alpha 1\beta 1$ integrin ("VLA-1" or " $\alpha 1\beta 1$ " or " $\alpha 1\beta 1$ " integrin", used interchangeably) herein refers to a genus of polypeptides which are capable of binding to members of the extracellular matrix proteins such as laminin or collagen, or homologs or fragments thereof. The term as used herein includes $s\alpha 1\beta 1$ integrin 143-340), homologs, mutants, equivalents and fragments thereof.

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The term "co-complex" refers to an $\alpha 1\beta 1$ or a mutant or homolog of $\alpha 1\beta 1$ in covalent or non-covalent association with a chemical entity.

The term "homolog" or "homologous"- as used herein is synonymous with the term "identity" and refers to the sequence similarity between two polypeptides, molecules or between two nucleic acids. When a position in both of the two compared sequences is occupied by the same base or amino acid monomer subunit (for instance, if a position in each of the two DNA molecules is occupied by adenine, or a position in each of two polypeptides is occupied by a lysine), then the respective molecules are homologous at that position. The percentage homology between two sequences is a function of the number of matching or homologous positions shared by the two sequences divided by the number of positions compared x 100. For instance, if 6 of 10 of the positions in two sequences are matched or are homologous, then the two sequences are 60% homologous. By way of example, the DNA sequences CTGACT and CAGGTT share 50% homology (3 of the 6 total positions are matched). Generally, a comparison is made when two sequences are aligned to give maximum homology. Such alignment can be provided using, for instance, the method of Needleman et al., J. Mol Biol. 48: 443-453 (1970), implemented conveniently by computer programs such as the Align program (DNAstar, Inc.). Homologous sequences share identical or similar amino acid residues, where similar residues are conservative substitutions for, or "allowed point mutations" of, corresponding amino acid residues in an aligned reference sequence. In this regard, a "conservative substitution" of a residue in a reference sequence are those substitutions that are physically or functionally similar to the corresponding reference residues, e.g., that have a similar size, shape, electric charge, chemical properties, including the ability to form covalent or hydrogen bonds, or the like. Particularly preferred conservative substitutions are those fulfilling the criteria defined for an "accepted point mutation" in Dayhoff et al., 5: Atlas of Protein Sequence and Structure, 5: Suppl. 3, chapter 22: 354-352, Nat. Biomed. Res. Foundation, Washington, D.C. (1978).

The term "mutant" refers to an $\alpha 1\beta 1$ integrin or fragment thereof, characterized by the replacement, deletion, or insertion of at least one amino acid from the wild-type. Such a mutant may be prepared, for example, by expression of $\alpha 1\beta 1$ integrin previously altered in its coding sequence by oligonucleotide-directed mutagenesis.

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The term "positively charged amino acid" includes any amino acid, natural or unnatural, having a positively charged side chain under normal physiological conditions. Examples of positively charged naturally occurring amino acids are arginine, lysine and histidine.

The term "negatively charged amino acid" includes any amino acid, natural or unnatural, having a negatively charged side chain under normal physiological conditions. Examples of negatively charged naturally occurring amino acids are aspartic acid and glutamic acid.

The term "hydrophobic amino acid" means any amino acid having an uncharged, nonpolar side chain that is relatively insoluble in water. Examples are alanine, leucine, isoleucine, valine, proline, phenylalanine, tryptophane and methionine.

The term "hydrophilic amino acid" means any amino acid having an uncharged, polar side chain that is relatively soluble in water. Examples are serine, threonine, tyrosine, asparagine, glutamine, and cysteine.

The term "altered surface charge" means a change in one or more of the charge units of a mutant polypeptide, at physiological pH, as compared to $\alpha 1\beta 1$ integrin. The change in surface charge can be determined by measuring the isoelectric point (pI) of the polypeptide molecule containing the substituted amino acid and comparing it to the pI of the wild-type molecule.

The term "associating with" refers to a condition of proximity between two chemical entities, or portions thereof, for example, an $\alpha 1\beta 1$ integrin or portions thereof and a chemical entity. The association may be non-covalent, wherein the juxtaposition is energetically favored by hydrogen bonding, van der Waals interaction, or electrostatic interaction, or it may be a covalent association.

The term "binding site" refers to any or all of the sites where a chemical entity binds or associates with another entity.

The term "structural coordinates" refers to the coordinates derived from mathematical equations related to the patterns obtained on diffraction of a monochromatic beam of X-rays by the atoms (scattering centers) of molecule in crystal form. The diffraction data are used to calculate an electron density map of the repeating units of the crystal. Those skilled in the art will understand that the data obtained are dependent upon the particular system used, and hence, different coordinates may in fact describe the same

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crystal if such coordinates define substantially the same relationship as those described herein. The electron density maps are used to establish the positions of the individual atoms within the unit cell of the crystal.

Those of skill in the art understand that a set of structural coordinates determined by X-ray crystallography is not without standard error. Table II is the atomic coordinates of the I-domain of the $\alpha 1$ chain of $\alpha 1\beta 1$ integrin (143-340). For the purpose of this invention, any set of structural coordinates of $\alpha 1\beta 1$ (143-340) that have a root mean square deviation of equivalent protein backbone atoms of less than about 2Å when superimposed—using backbone atoms—on the structural coordinates in Table II shall be considered identical. Preferably the deviation is less than about 1Å and more preferably less than about 0.5Å.

The term "heavy atom derivatization" refers to a method of producing a chemically modified form of a crystallized $\alpha 1\beta 1$ integrin. In practice, a crystal is soaked in a solution containing heavy metal atom salts, or organometallic compounds, e.g., lead chloride, gold thiomalate, thimerosal or uranyl acetate, which can diffuse through the crystal and bind to the surface of the protein. The location of the bound heavy metal atom(s) can be determined by X-ray diffraction analysis of the soaked crystal. This information can be used to generate the phase information used to construct the three-dimensional structure of the molecule.

The term "unit cell" refers to a basic shaped block. The entire volume of a crystal may be constructed by regular assembly of such blocks. Each unit cell comprises a complete representation of the unit of pattern, the repetition of which builds up the crystal.

The term "space group" refers to the arrangement of symmetry elements of a crystal.

The term "molecular replacement" refers to a method that involves generating a preliminary structural model of a crystal whose structural coordinates are unknown, by orienting and positioning a molecule whose structural coordinates are known e.g. the $\alpha 1$ I-domain coordinates in Table II, within the unit cell of the unknown crystal, so as to best account for the observed diffraction pattern of the unknown crystal. Phases can then be calculated from this model, and combined with the observed amplitudes to give an approximate Fourier synthesis of the structure whose coordinates are unknown. This in turn can be subject to any of the several forms of refinement to provide a final accurate

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structure of the unknown crystal. See, e.g., Lattman, E., "Use of the Rotation and Translation Functions", Methods in Enzymology, 115, pp. 55-77 (1985); Rossman, ed., "The Molecular Replacement Method", Int. Sci. Rev. Ser. No. 13, Gordon and Breach, New York (1972), all specifically incorporated by reference herein. Using the structural coordinates provided by this invention, molecular replacement may be used to determine the structural coordinates of a crystalline co-complex, unknown ligand, mutant, homolog, or of a different crystalline form of $\alpha 1\beta 1$ or fragment thereof. Additionally, the claimed crystal and its coordinates may be used to determine the structural coordinates of a chemical entity which associates with $\alpha 1\beta 1$ or fragment or with a member of the extracellular matrix which is a ligand for $\alpha 1\beta 1$ or fragment thereof.

The term "chemical entity" as used herein shall mean, for example, any molecule, molecular complex, compound or fragment thereof.

Mutants of $\alpha 1\beta 1$ or fragments thereof may be generated by site-specific incorporation of natural or unnatural amino acids into $\alpha 1\beta 1$ or fragments using general biosynthetic methods known to those skilled in the art. For example, the codon encoding the amino acid of interest in wild-type $\alpha 1$ chain of $\alpha 1\beta 1$ may be replaced by a "blank" nonsense codon, such as TAG, using oligonucleotide-directed mutagenesis. A suppressor tRNA directed against this codon can then be chemically aminoacylated in vitro with the desired amino acid. The aminoacylated tRNA can then be added to an in vitro translation system to yield a mutant $\alpha 1\beta 1$ with the site-specific incorporated amino acid.

The term "soluble fragment" of α1β1 and any equivalent term used herein, refers to a functional fragment of α1β1, and more particularly refers to a functional α1 chain. The term "functional" as used in this context refers to a soluble fragment of the extracellular domain that is capable of binding to, or associating with a member of the extracellular matrix such as collagen or laminin or any fragments or homologs thereof, including molecular complexes comprising fragments thereof. Such binding may be demonstrated through immunoprecipitation experiments, using standard protocols known in the art.

A. ALPHA 1 BETA 1 INTEGRIN, its Crystal, and its Biological Implications

It will be understood that throughout the specification and claims, the positional location of the amino acids described is not an absolute value, but rather, defines the relative relationship of the residues. Thus it is intended that the present invention encompass the sequences having the same or similar relative positions.

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For the first time, the present invention permits the use of molecular design techniques to design, screen and optimize chemical entities and compounds, including inhibitory compounds, capable of binding to the active site or accessory binding site of $\alpha 1\beta 1$, in whole or in part. The $\alpha 1\beta 1$ integrin is a membrane-bound protein of considerable biomedical interest because of its involvement in important functions mediated by its binding to the extracellular matrix such as collagen. Since $\alpha 1\beta 1$ is found in various vertebrate (e.g., mammalian) organisms, such as humans, mice, rats, and pigs, the claimed invention is not intended to be limited to any particular species or organism.

The $\alpha 1\beta 1$ integrin (VLA-1)is a member of the integrin family of proteins. The crystal structure of I-domains from other members of this family, αM , αL and $\alpha 2$, have been described. See Dickeson & Santoro (1998) Cell. Mol. Life Sci. 54, 556-566 for a review and Emsley et al., J. Biol.Chem. 272, 28512-28517.

These I-domains were used as a framework for understanding the $s\alpha1\beta1$ integrin(143-340) crystal structure. However, despite certain similarities, the differences between the I-domain of $\alpha1$ and the I-domains of αM , αL , and $\alpha2$ integrins, confirm that these ligand-receptor systems utilize spatially overlapping, but nonidentical and nonconserved sites of contact residues with different molecular determinants of binding.

Considering the complexity and overlap of the various integrins and their biological processes, the fact that $\alpha1\beta1$ binds specifically to its ligand suggests that inhibiting $\alpha1\beta1$ signaling may have important therapeutic applications. The crystal structure of $s\alpha1\beta1$ (143-340) presented here is expected to be useful in the design, identification, characterization and optimization of such therapeutic agents.

The following detailed description of applicants invention encompasses the (a) crystal structure of the $\alpha 1$ chain I-domain (Cys143-Ala340) of $\alpha 1\beta 1$ integrin and the coordinates thereof, (b) the binding sites thereof, (c) methods of making an $\alpha 1\beta 1$ crystal or fragment thereof, and (d) methods of using the $\alpha 1\beta 1$ crystal or fragment thereof and its structural coordinates.

(a) Crystal Structure of the α1 I-domain

The claimed invention provides crystals of $\alpha 1\beta 1$ integrin as well as the structure derived therefrom. The crystals are derived from the $\alpha 1$ I-domain of the rat. Nevertheless, the sequence identity between rat and human alpha 1 I-domains is about 95%. Specifically, the amino acids which differ between the rat and human $\alpha 1$ I-domains are

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Ile166, Asn214, Gly217, Arg 218, Gln219 Leu222, Tyr262, Gln267, His288, Ala330 (rat I-domain sequence). Most of them are located a relatively long distance away from the metal-ion-dependent-adhesion-site (MIDAS) of the α1 I-domain, the site likely to be involved in ligand binding. The only 2 amino acids that are expected to participate in ligand binding are the Leu222 and His288. This high degree of primary amino acid sequence identity indicates that the 3-dimensional structures of rat and human 1 I-domains are expected to be similar. Therefore, we used the crystal structure of the rat 1 I-domain for the purposes discussed in this patent and we fully expect that the 3-dimensional structure of the human 1 I-domain will have substantially identical coordinates for the main chain atoms.

The claimed invention provides crystals of a fragment from the $\alpha 1$ chain of $\alpha 1\beta 1$ integrin(143-340) having unit cells which are rhombohedral, and having the following dimensions a= 34.77Å; b=85.92Å and c= 132.56Å; $\alpha = \beta = \gamma = 90$ Å. Almost all of the residues of the I-domain of the $\alpha 1$ chain of $\alpha 1\beta 1$ integrin, except for residues 143-144 of the N terminus and 336-340 of the C-terminus, are well defined in the final electron density map shown in Figure 1. The current model consists of 386 amino acid residues and 199 water molecules with a crystallographic R factor of 23.5 % and an R_{free} of 30.2% for data between 100Å and 2.2Å.

There are two copies of the molecule (termed "A" and "B") in the asymmetric unit. The Ramachandran diagram shows that 384 out of the 386 amino acid residues have (ϕ,ψ) angles within the allowed regions. The exception is residue Glu192 (A & B). In the atomic coordinates of the rat I-domain crystal structure (Tabld II), residues Thr145, Gln146, Arg234 of molecule A and Thr145 and Arg175 of molecule B are modeled as alanines because of absence of electron density for the side chain. In addition, residues 143, 145, 337, 338, 339,340 of molecule A and 143, 144, 339, 340 of molecule B are not included in the model due to weak electron density.

The I-domain adopts the nucleotide-binding fold (Figure 2) characterized by the existence of seven helices surrounding a core of five parallel β -strands and one antiparallel β -strand. The dimensions of the molecule are 25Å x 30Å x 50Å. The overall fold is similar to that of αM , αL and $\alpha 2$ I-domains and in particular to that of the $\alpha 2$ I-domain. By homology to the other I-domains it is inferred that the metal-ion-dependent-adhesion-site (MIDAS) of the $\alpha 1$ I-domain consists of residues Asp154, Ser156, Ser158, Thr224, Asp

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257. The MIDAS site is the site of Mg or Mn cation binding and is expected to be involved in ligand binding. The crystals were grown in the absence of Mg or Mn cations (except for contaminants) and there is no electron density visible in that would correspond to a cation. The structure appears to have the "inactive" conformation according to the model proposed in Lee et al. (1995) Structure 3, 1333-1340. The conformations of molecules A and B are very similar.

(b) Binding Sites

Modeling studies done for collagen binding on the $\alpha 2$ I-domain (Emsley et al. (1997) J. Biol.Chem. 272, 28512-28517) suggest that the binding site for collagen is expected to include the MIDAS site as well as several neighboring residues. By analogy, the binding site of the $\alpha 1$ I-domain for collagen is expected to include residues Asp154, Ser156, Asn157, Ser158, Leu222, Gln223, Thr224, Asp257, Glu259, His261, His288, Tyr289, Gly292, Leu294 and Lys298. Of interest is the observation that the MIDAS site of the $\alpha 1$ I-domain (molecule A in the crystal) forms an interaction with Arg246 of molecule B. It is possible that the positive charge of the arginine side chain replaces the positive charge of the missing metal ion.

(c) Methods of Making an α1β1 Crystal

In various embodiments, the claimed invention relates to methods of preparing crystalline forms of $\alpha1\beta1$, or fragments thereof by first providing an aqueous solution comprising $\alpha1\beta1$ or a fragment of $\alpha1\beta1$. A reservoir solution comprising a precipitating agent is then mixed with a volume of the $\alpha1\beta1$ solution and the resultant mixed volume is then crystallized. In certain embodiments, the crystal is derived from an aqueous solution comprising $s\alpha1\beta1(127\text{-}340)$. In preferred embodiments, the crystal is derived from an aqueous solution comprising $s\alpha1\beta1(143\text{-}340)$. The concentration of $\alpha1\beta1$ or fragment in the aqueous solution may vary, and is preferably about 1 to about 50 mg/ml, more preferably about 5 mg/ml to about 15 mg/ml, and most preferably, about 10 mg/ml. Similarly, precipitating agents used in the invention may vary, and may be selected from any precipitating agent known in the art. Preferably the precipitating agent is selected from the group consisting of sodium citrate, ammonium sulfate and polyethylene glycol, with polyethylene glycol 8000 being most preferred. Any concentration of precipitating agent may be used in the reservoir solution, however it is preferred that the concentration be about 20% w/v to about 35%w/v, more preferably about 25% w/v. The pH of the

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reservoir solution may also be varied, preferably between about 4 to about 10, most preferably about 6.5. One skilled in the art will understand that each of these parameters can be varied without undue experimentation and acceptable crystals will still be obtained. In practice, once the appropriate precipitating agents, buffers or other experimental variables are determined for any given growth method, any of these methods or any other methods can be used to grow the claimed crystals. One skilled in the art can determine the variables depending upon his particular needs.

Various methods of crystallization can be used in the claimed invention, including, but not limited to, vapor diffusion, batch, liquid bridge, or dialysis. Vapor diffusion crystallization is preferred. See, e.g. McPherson et al., "Preparation and Analysis of Protein Crystals", Glick, Ed., pp 82-159, John Wiley & Co. (1982); Jancarik et.al., "Sparse matrix sampling: a screening method for crystallization of protein", J. Appl. Cryst. 24, 409-411 (1991), specifically incorporated by reference herein.

In vapor diffusion crystallization, a small volume (i.e. a few milliliters) of protein solution is mixed with a solution containing a precipitating agent. This mixed volume is suspended over a well containing a small amount, i.e. about 1 ml, of precipitating solution. Vapor diffusion from the drop to the well will result in crystal formation in the drop.

The dialysis method of crystallization utilizes a semipermeable size exclusion membrane which retains the protein but allows small molecules (i.e. buffers and precipitating agents) to diffuse in and out. In dialysis, rather than concentrating the protein and the precipitating agent by evaporation, the precipitating agent is allowed to slowly diffuse through the membrane and reduce the solubility of the protein while keeping the protein concentration fixed.

The batch methods generally involve the slow addition of a precipitating agent to an aqueous solution of protein until the solution just becomes turbid, at this point the container can be sealed and left undisturbed for a period of time until crystallization occurs.

Thus, applicants intend that the claimed invention encompass any and all methods of crystallization. One skilled in the art can choose any of such methods and vary the parameters such that the chosen method results in the desired crystals.

(d) Use of ALPHA 1 BETA 1 INTEGRIN Crystal and its Coordinates

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The claimed crystals, and coordinates describing them, permit the use of molecular design techniques to design, select and synthesize chemical entities and compounds, including inhibitory compounds or agonists capable of binding to, or associating with, the binding site of $\alpha 1\beta 1$ integrin in whole or in part.

One approach enabled by this invention is the use of the structural coordinates defined herein to design chemical entities that bind to or associate with, $\alpha 1\beta 1$ or fragments of $\alpha 1\beta 1$ and alter the physical properties of the compounds in different ways. Thus, properties such as, for example, solubility, affinity, specificity, potency, on/off rates or other binding characteristics may all be altered and/or optimized.

One may design desired chemical entities by probing a crystal of the present invention with a library of different entities to determine optimal sites for interaction between candidate chemical entities and $\alpha 1\beta 1$ or fragments of $\alpha 1\beta 1$. For example, high resolution x-ray diffraction data collected from crystals saturated with solvent allows the determination of where each type of solvent molecule sticks. Small molecules that bind tightly to those sites can then be designed and synthesized and tested for the desired activity. Once the desired activity is obtained, the molecules can be further optimized.

The claimed invention also makes it possible to computationally screen small molecule data bases or computationally design chemical entities or compounds that can bind in whole, or in part, to extracellular matrix proteins or $\alpha 1\beta 1$ or fragments thereof. They may also be used to solve the crystal structure of mutants, co-complexes, or of the crystalline form of any other molecule homologous to, or capable of associating with, at least a portion of $\alpha 1\beta 1$, i.e., the I-domain of the $\alpha 1$ chain.

One method that may be employed for this purpose is molecular replacement. An unknown crystal structure, which may be any unknown structure, such as, for example, another crystal form of $\alpha 1\beta 1$, an $\alpha 1\beta 1$ mutant, or a co-complex with an extracellular matrix protein such as laminin or collagen, or any other unknown crystal of a chemical entity which associates with $\alpha 1\beta 1$ or fragment which is of interest, may be determined using the structural coordinates of this invention, set forth in Table II. Co-complexes with $\alpha 1\beta 1$ or fragments may include, but are not limited to, laminin- $\alpha 1\beta 1$, collagen- $\alpha 1\beta 1$, and "small molecule"- $\alpha 1\beta 1$. This method will provide an accurate structural form for the unknown crystal more quickly and efficiently than attempting to determine such information without the claimed invention. The information obtained can thus be used to

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optimize potential inhibitors or agonists of $\alpha 1\beta 1$, and more importantly, to design and synthesize novel classes of chemical entities which will affect the relationship between $\alpha 1\beta 1$ and its ligand(s) in the extracellular matrix.

The design of compounds that inhibit or agonize $\alpha 1\beta 1$ according to this invention generally involves consideration of at least two factors. First, the compound must be capable of physically or structurally associating with $\alpha 1\beta 1$ or a fragment thereof. The association may be any physical, structural, or chemical association, such as, for example, covalent or noncovalent bonding, van der Waals interactions, hydrophobic or electrostatic interactions.

Second, the compound must be able to assume a conformation that allows it to associate with $\alpha 1\beta 1$ or fragment thereof. Although not all portions of the compound will necessarily participate in the association with $\alpha 1\beta 1$ or fragment, those non-participating portions may still influence the overall conformation of the molecule. This in turn may have a significant impact on the desirability of the compound. Such conformational requirements include the overall three-dimensional structure and orientation of the chemical entity or compound in relation to all or a portion of the binding site.

The potential inhibitory or binding effect of a chemical compound on $\alpha 1\beta 1$ or fragment may be analyzed prior to its actual synthesis and testing by the use of computer modeling techniques. If the theoretical structure of the given compound suggests insufficient interaction and association between it and $\alpha 1\beta 1$ or its fragment(s), the need for synthesis and testing of the compound is obviated. However, if computer modeling indicates a strong interaction, the molecule may then be synthesized and tested for its ability to bind to $\alpha 1\beta 1$ or fragment thereof. Thus, expensive and time consuming synthesis of inoperative compounds may be avoided.

An inhibitory or other binding compound of $\alpha 1\beta 1$ or fragment may be computationally evaluated and designed by means of a series of steps in which chemical entities or fragments are screened and selected for their ability to associate with the individual binding sites of $\alpha 1\beta 1$.

Thus, one skilled in the art may use one of several methods to screen chemical entities or fragments for their ability to associate with $\alpha 1\beta 1$ and more particularly, with the individual binding sites of the I-domain of the $\alpha 1$ chain of $\alpha 1\beta 1(143-340)$. This process may begin by visual inspection of, for example, the binding site on a computer screen

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based on the coordinates in Table II. Selected fragments or chemical entities may then be positioned in a variety of orientations, or "docked", within an individual binding pocket of $\alpha 1\beta 1$. Docking may be accomplished using software such as Quanta and Sybyl, followed by energy minimization and molecular dynamics with standard molecular mechanics force fields, such as CHARMM and AMBER.

Specialized computer programs may be of use for selecting interesting fragments or chemical entities. (GRID, available from Oxford University, Oxford, UK; MCSS or CATALYST, available from Molecular Simulations, Burlington, MA; AUTODOCK, available from Scripps Research Institute, La Jolla, CA; DOCK available from University of California, San Francisco, CA., XSITE, University College of London, UK.)

Once suitable chemical entities or fragments have been selected, they can be assembled into an inhibitor or agonist. Assembly may be by visual inspection of the relationship of the fragments to each other on the three-dimensional image displayed on a computer screen, in relation to the structural coordinates disclosed herein.

Alternatively, one may design the desired chemical entities "de novo", experimentally, using either an empty binding site, or optionally including a portion of a molecule with desired activity. Thus, for example, one may use solid phase screening techniques where either $\alpha 1\beta 1$ or a fragment thereof, or candidate chemical entities to be evaluated are attached to a solid phase thereby identifying potential binders for further study or optimization.

Basically, any molecular modeling techniques may be employed in accordance with the invention; these techniques are known, or readily available to those skilled in the art. It will be understood that the methods and compositions disclosed herein can be used to identify, design or characterize not only entities which will associate or bind to $\alpha1\beta1$ or fragment thereof, but alternatively to identify, design or characterize entities which, like $\alpha1\beta1$, will bind to extracellular matrix proteins, thereby disrupting the $\alpha1\beta1$ -ECM interaction. The claimed invention is intended to encompass these methods and compositions broadly.

Once a compound has been designed or selected by the above methods, the efficiency with which that compound may bind to $\alpha 1\beta 1$ or fragment thereof may be tested and optimized using computational or experimental evaluation. Various parameters can be optimized depending on the desired result. These include, but are not limited to,

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specificity, affinity, on/off rates, hydrophobicity, solubility and other characteristics readily identifiable by the skilled artisan. Thus, one may optionally make substitutions, deletions, or insertions in some of the components of the chemical entities in order to improve or modify the binding properties. Generally, initial substitutions are conservative, i.e the replacement group will have approximately the same size, shape, hydrophobicity and charge as the original component.

The present invention also enables the design of mutants of $\alpha 1\beta 1$ and the solving of their crystal structure. More particularly, the claimed invention enables one skilled in the art to determine the location of binding sites and interfaces, particularly in the I-domain of the $\alpha 1$ chain, thereby identifying desirable sites for mutation.

For example, mutation may be directed to a particular site or combination of sites on the I-domain, by replacing or substituting one or more amino acid residues. Such mutants may have altered binding properties which may or may not be desirable.

The mutants may be prepared by any methods known in the art, such as for example, site directed mutagenesis, deletion or addition, and then tested for any properties of interest. For example, mutants may be screened for an altered charge at a particular pH, tighter binding, better specificity etc.

Additionally, the claimed invention is useful for the optimization of potential small molecule drug candidates. Thus, the claimed crystal structures can be also be used to obtain information about the crystal structures of complexes of the $\alpha 1\beta 1$ integrin and small molecule inhibitors. For example, if the small molecule inhibitor is co-crystallized with $\alpha 1\beta 1$ or a fragment thereof, then the crystal structure of the complex can be solved by molecular replacement using the known coordinates of $\alpha 1\beta 1$ or fragment for the calculation of phases. Such information is useful, for example, for determining the nature of the interaction between the I-domain of $\alpha 1\beta 1$ integrin and the small molecule inhibitor, and thus, may suggest modifications which would improve binding characteristics such as affinity, specificity and kinetics.

Example 1: <u>Determination of Crystal Structure of the ALPHA 1 INTEGRIN I-DOMAIN</u> (127-340)

30 A. Expression and purification of α1 integrin I-domain.

A soluble fragment of the extracellular domain of rat integrin $\alpha 1\beta 1$ $\alpha 1$ chain containing amino acid residues Val127 to the C-terminal residue Ala340 was produced in

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soluble form and purified as follows: The gene encoding the rat $\alpha1\beta1$ I-domain sequence of amino acids Val127-Ala340 of the $\alpha1$ chain was amplified from full length cDNAs by the polymerase chain reaction (PCR) (PCR CORE Kit; Boehringer Mannheim, GmbH Germany), using rat specific primers (5'-CAGGATCCGTCAGTCCTACATTTCAA-3' [forward][SEQ ID NO: 1]; 5'-TCCTCGAGCGCTTCCAAAGCGAATAT-3' [reverse]{SEQ ID NO: 2].

The resulting PCR amplified products were purified over a PCR select II column (5 prime-3 prime), digested with Bam H1 and Xho 1 restriction enzymes, re-purified over a PCR select II column, and ligated in pGEX4t (Pharmacia), previously digested with Bam H1 and Xho1, dephosphorylated with calf intestinal alkaline phosphatase (New England Biolabs), and gel purified. Ligation products were transformed into competent DH5A E.Coli cells (Gibco BRL) and the resulting amplicillin resistant colonies were screened for the expression of the ~45 kDa glutathione S-transferase-I domain fusion protein. The I-domain was expressed as a GST fusion protein with a thrombin cleavage site at the junction of the sequences.

Cells in PBS (1 part of wet cell weight to 4 parts of buffer) were lysed in a Gaulin press and clarified of particulates by centrifugation (14,000 x g, 30 min). 650 ml of lysate from 180 g of cell paste was loaded onto a 25 ml glutathione Sepharose 4B column (Pharmacia). The column was washed with 100 ml of PBS and the rat alpha1 integrin I domain-GST fusion protein eluted from the column with 50 mM Tris HCl pH 8.0, 5 mM glutathione (reduced). Five ml fractions were collected and analyzed for total protein by absorbance at 280 nm and for purity by SDS-PAGE. Peak fractions were pooled, aliquoted, and stored at –70 degrees C. A total of 375 mg of the fusion protein (15 mg/ml) at >90% purity was recovered.

For preparation of the purified I-domain, 6 ml of the fusion protein was dialyzed overnight against one liter of 50 mM Tris pH 7.5. The sample was treated with 100 µg of thrombin (a gift of Dr. John Fenton, New York State Department of Health, Albany, NY) for 150 min at room temperature. DTT was added to 2 mM and the sample was loaded onto a 7 ml glutathione Sepharose® 4B column. The flow through from the column was collected as 1.5 ml fractions and the column was further washed with 50 mM Tris HCl pH 7.5, 2 mM DTT buffer. The flow through and wash fractions were analyzed for

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absorbance at 280 nm. Peak fractions were pooled and loaded onto a 2.4 ml Q Sepharose® FF column (Pharmacia).

The Q-Sepharose column was washed with 2 ml of 50 mM Tris HCl pH 7.5, 2 mM DTT; 2 ml of 50 mM Tris HCl pH 7.5, 10 mM 2-mercaptoethanol; twice with 2ml of 50 mM Tris HCl pH 7.5, 10 mM 2-mercaptoethanol, 25 mM NaCl; and the alpha 1 integrin I domain eluted with 50 mM Tris HCl pH 7.5, 10 mM 2-mercaptoethanol, 75 mM NaCl. Peak fractions were pooled, filtered through a 0.2 μm filter, and stored at 4 degrees C. The final product was >99% pure by SDS-PAGE, eluted as a single peak by size exclusion chromatography on a Superose® 6 column (Pharmacia & Upjohn) consistent with its predicted mass, and by electrospray ionization-mass spectrometry (ESI-MS, Micromass, Quattro-II, Manchester, UK) contained a single ion with mass of 24,868 Da, which agreed with the predicted mass of 24871.2 Da for the rat α1 I-domain sequence plus the GS linker resulting from cleavage at the engineered thrombin cleavage site. From 72 mg of the fusion protein, 24 mg of the purified I- domain was recovered (based on a theoretical extinction coefficient of 0.5 at 280 nm for 1 mg/ml solution of the I-domain).

In preliminary studies, we found that the rat $\alpha 1$ integrin I-domain in this form failed to crystallize under any test condition and, as had been observed for other I domains (R.Liddington, personal communication), that sequences at the N-terminus of the I domain construct were problematic. A simple proteolytic method was developed to convert the purified rat I-domain into a form that could be crystallized.

Briefly, 240 µl of the purified alpha 1 integrin I domain (16 mg/ml) was diluted with 360 µl of 50 mM Tris HCl pH 7.5 and loaded onto a 1.2 ml V8 protease column (Pierce) that had been equilibrated in 50 mM Tris HCl pH 7.5. The I domain solution was left in contact with the resin for 35 min at room temperature and then recovered by washing the column with 50 mM Tris HCl pH 7.5. The I domain was then dialyzed overnight against 10 mM Tris pH 7.5, 10 mM 2-mercaptoethanol and concentrated to 11 mg/ml in a centricon-10 ultrafiltration unit (Amicon). ESI-MS analysis of V8 protease digested product revealed that the product had been converted into a des 1-18 form, starting at Cys143 in the fusion protein construct.

B. Crystallization

Buffer chemicals were purchased from Fisher (Boston, MA). Crystallization condition screenings were done with the Crystal Screen I kit from Hampton Research

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(Riverside, CA). Crystals were grown by the vapor diffusion method of Jancarik & Kim (1991) J. Appl. Crystallogr. 24, 409-411.

In order to find conditions of crystallization, an incomplete factorial screen was set up. In a typical experiment, protein solution was mixed with an equal volume of reservoir solution and a drop of the mixture was suspended under a glass cover slip over the reservoir solution. Crystals were grown out of 25% w/v Polyethylene Glycol (PEG) 8000, 0.1 M sodium cacodylate pH 6.5, 0.2 M sodium acetate reservoir solution. The crystals are shaped as plates, are easy to reproduce and can reach maximum dimensions of almost 0.5 mm on one side. Variation of pH between 6 and 7 did not affect crystal quality.

Those of skill in the art will appreciate that the aforesaid crystallization conditions can be varied. By varying the crystallization conditions, other crystal forms of $\alpha1\beta1$ integrin I-domain may be obtained. Such variations may be used alone or in combination, and include: varying final protein concentrations between 5 mg/ml and 35 mg/ml; varying the $s\alpha1\beta1$ integrin I-domain to precipitant ratio; varying PEG concentrations between 15% and 35% w/v; varying the molecular weight of polyethylene glycol from 400 to 8000; varying pH ranges between 5.0 and 9.5; varying sodium cacodylate concentrations between 5 and 395 mM; varying sodium acetate concentrations between 5 and 495 mM; varying the concentration or type of detergent; varying the temperature between -5 degrees C and 30 degrees C; and crystallizing $\alpha1\beta1$ integrin I-domain by batch, liquid bridge, or dialysis method using the above conditions or variations thereof. See McPherson, A.(1982). Preparation and Analysis of Protein Crystals. (Glick, ed.) pp. 82-159, John Wiley & Co., N.Y., specifically incorporated by reference herein.

C. Data collection and processing

Crystals were equilibrated gradually in a cryoprotectant solution of 20% glycerol, 25% w/v PEG 8000, 0.1 M sodium cacodylate pH 6.5, 0.2 M sodium acetate, and were mounted on a loop and immediately frozen in a -150 C liquid nitrogen gas stream. The technique of freezing the crystals essentially immortalizes them and produced a much higher quality data set.

A native X-ray data set up to 3.0 Å resolution was collected from one crystal by using an R-AXIS II image plate detector system (Molecular Structure Corporation, Woodlands, TX). A second data set to 2.2 Å resolution was collected later by using a

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larger crystal. The data were integrated and reduced using the HKL program package (Otwinowski et al (1993) in Data collection and Processing pp 80-86, SERC Daresbury Laboratory, Warrington, UK). The data collection required about 4 days. Data processing suggested an orthorhombic unit cell with approximate cell dimensions a=34.77 Å , b=85.92 c=132.56 and alpha=beta=gamma=90. The space group was identified as $P2_12_12_1$. The 2.2 Å data set was 91.3% complete and had an R-merge of 5.6%. Calculation of the Matthews volume gives $V_M = 4.22$ assuming a molecular weight of 23,000 daltons which suggested that there are 2 molecules in the asymmetric unit.

D. Molecular replacement

All subsequent molecular replacement computing was done with the program Amore (Navaja et al (1994) Acta Crystallogr. A 50, 157-163) from the CCP4 program package (The SERC (UK) Collaborative Computing Project No 4, Daresbury Laboratory, UK 1979). Molecular graphics manipulations were done with QUANTA (Molecular Simulations, Inc.) and "O" software (Jones et al 1991 Acta Crystallogr. A 47, 110-119). The coordinates of the crystal structure of the human α2 I-domain (Emsley et al. (1997) J. Biol.Chem. 272, 28512-28517) was used as a probe for rotation and translation searches using the 3 Å data set.

We used all the coordinates of all atoms, including side chains. The rotation function gave a solution with the highest correlation coefficient (cc) of 9.7. This solution was used for a first translation function which yielded a cc of 24.6 and an R-factor of 48.7%. Using rigid body refinement, these values refined to cc=40.3, R-factor=48.7%. Using this first solution, we took the peaks of the first rotation search and used these for searching the second molecule, keeping our first solution fixed. The translation search yielded a maximum peak with cc=37.3 and an R-factor of 44.8%. Rigid body refinement on these two solutions resulted in cc=56.3 and R-factor=43.3%.

The next highest solution gave: cc=36.6 R-fac=49.9%. By generating symmetry related molecules and displaying them with computer graphics it was found that they packed satisfactorily in the unit. The rotation matrix between the two molecules of the asymmetric unit was determined and one molecule was used for the initial stages of model building.

E. Model building and crystallographic refinement

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All subsequent refinement computing was done with the XPLOR program (Brunger et al (1987) Science 235, 458-460). 10% of the data were used for the calculation of R-free. To reduce model bias, partial models were used for map calculation and refinement. The initial partial model, containing a polyalanine chain of the secondary structure elements only, from the a2 I-domain structure, was subjected to conventional positional refinement and grouped B-factor refinement with strict non -crystallographic symmetry constraints.

The R and R-free factors dropped to 32.3% and 39.4% respectively. 3Fo -2Fc maps were used for cycles of model building and refinement. The resolution range used was from 8 to 3 Å. Typically, cycles consisted of model building, positional refinement and B-factor refinement. When the R and R-free reached 26% and 36% respectively, the 3 Å data set did not allow further improvement of the model. The 2.2 Å data set was collected at this point and was used for all subsequent model building and refinement. The R and R-free factors after the initial rigid body refinement at 2.2 Å were 41.3% and 42.2% respectively.

This larger data set allowed use of simulated annealing refinement and torsion angle dynamics refinement. As the phases improved, more atoms were added into the model. Initially, grouped B-factors were assigned for each residue (one for main chain and the one for side chain atoms). Later, non-crystallographic symmetry constraints were removed and individual atomic B-factors where refined for each residue. In addition bulk solvent correction was applied to the data set. Residues and side chains would be incorporated in the model if they were sufficiently well defined in 3Fo-2Fc electron density maps. Only manual structure modifications that resulted in lower R-free after refinement were accepted.

When R and R-free reached 29% and 34.8% respectively, water molecules were added by using the X-solvate utility of QUANTA. Finally, maximum likelihood refinement was used (Adams et al (1997) Pro.Nat.Acad.Sci USA 94, pp. 5018-5023) and resulted in the final structure with R and R-free of 23.5% and 30.2% respectively for data between 100 and 2.2 Å resolution. Table I summarizes information regarding crystallographic data and refinement. Table II lists the atomic coordinates of the I-domain of the α1 chain of the rat α1β1 integrin. The coordinates of the crystal structure of the I-

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by the small molecule.

domain may be used in the structure-based design of small molecule inhibitors of $\alpha 1\beta 1$, computational drug design and iterative structure optimization.

a. Computational drug design

Small molecule inhibitors can be designed using computational approaches. These approaches are also known as de novo drug design. In brief, the crystal structure coordinates of the $\alpha 1\beta 1$ integrin or fragment(s) thereof are the input for a computer program, such as DOCK. Programs such as DOCK output a list of small molecule structures that are expected to bind to $\alpha 1\beta 1$ or the fragment(s). These molecules can then be screened by biochemical assays for a1\beta1 binding. Typically, biochemical assays that screen molecules for their ability to bind to $\alpha 1 \beta 1$ or a fragment thereof are competitiontype assays. In such assays, the molecule is added to the assay solution and the degree of inhibition is measured using conventional methodology. An example of such an assay is the following: 96 well plates can be coated with collagen IV or collagen I and blocked with 3% Bovine Serum Albumin solution. Solution of a1 Idomain together with the small molecule under testing are incubated on the coated plates at room temperature for 1 hour and washed in triton buffer. Bound a1 I-domain is detected with a biotinylated anti-I-domain antibody. Plates are read at OD₄₀₅ on a microplate reader. The amount of bound I-domain is compared with a control experiment with no small molecule present. If it is lower than that of the control experiment that suggests inhibition

b. Iterative cycles of structure optimization

The crystal structures of complexes formed between $\alpha 1\beta 1$ or a fragment and small molecule inhibitors may be solved. In brief, small molecule inhibitors are typically found using the crystal structure coordinates of a s $\alpha 1\beta 1$ integrin or fragment either by the computational approaches mentioned above or by the screening of small molecule libraries. The small molecule inhibitor is then co-crystallized with $\alpha 1\beta 1$ or a fragment and the crystal structure of the complex is solved by molecular replacement. Molecular replacement requires the coordinates of a s $\alpha 1\beta 1$ or fragment for the calculation of phases. The information collected from these experiments can be used to optimize the structure of small molecule inhibitors by clarifying how small molecules interact with the protein target. This suggests ways of modifying the small molecule to improve its

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physicochemical properties, such as affinity, specificity, and kinetics with regard to the $\alpha 1\beta 1$ target.

In addition to being necessary for computational drug design and structure optimization, the crystal coordinates described herein are useful for analyzing the $\alpha 1\beta 1$ binding site. Through such analysis, it was determined that a particularly attractive region for drug targeting is in the vicinity of residues Asp154, Ser156, Asn157, Ser158, Leu222, Gln223, Thr224, Asp257, Glu259, His261, His288, Tyr289, Gly292, Leu294 and Lys298. The above observations and hypotheses suggest that this region may contribute significantly to the binding energy of $\alpha 1\beta 1/ECM$ interactions, and therefore, is an attractive target for inhibitor design. Site mutations studies can be used in conjunction with the above-described processes to further define the binding site.

It will be apparent to those skilled in the art that various modifications and variations can be made in the methods and compositions of the present invention without departing from the spirit or scope of the invention. Thus, it is intended that the present invention cover the modifications and variations of this invention provided that they come within the scope of the appended claims and their equivalents.

TABLE I: Crystallographic data statistics:

 $P2_12_12_1$ Symmetry: Unit cell (Å) a = 34.77, b = 85.92, c = 132.5620 1 No.of crystals: Resolution (Å) 2.2 19,238 Reflections(unique): 5.6% R_{merge} 91.3% 25 Completeness: Completeness(2.2-2.28 Å) 77.6%

TABLE II: Crystallographic coordinates of the alpha1 I-domain crystal structure in PDB(XPLOR) format. Segment names A, B, W correspond to molecule A, molecule B and water respectively.

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	CRYST	34.	770	85.	920 132	.560 90.00	0 90.00	90.00	P212	2121	
	ATOM	1	CB	ALA	145	35.261	87.828	-14.480	1.00	46.82	A
	ATOM	2	С	ALA	145	33.051	87.078	-15.373	1.00	48.98	A
	ATOM	3	0	ALA	145	32.414	87.150	-14.310	1.00	49.22	A
35	ATOM	4	HT1	ALA	145	33.390	89.717	-14.876	1.00	0.00	A
	ATOM	5	HT2	ALA	145	33.206	89.509	-16.551	1.00	0.00	A
	ATOM	6	N	ALA	145	33.860	89.407	-15.751	1.00	47.03	A
	ATOM	7	HT3	ALA	145	34.705	89.992	-15.916	1.00	0.00	A
	ATOM	8	CA	ALA	145	34.266	87.977	-15.619	1.00	46.67	A
	111 011	_									

	ATOM	9 N ALA	146	32,737	86.234 -	-16.358	1.00 42.12	A
	ATOM	10 H ALA	146	33.287	86.229 -	-17.170	1.00 0.00	A
	MOTA	11 CA ALA	146	31.603	85.321 -		1.00 40.10	A
	ATOM	12 CB ALA	146	31.657	84.314 -		1.00 35.92	A
5	MOTA	13 C ALA	146	31.621	84.602 -		1.00 40.80	A
	MOTA	14 O ALA	146	32.511	83.799		1.00 42.91 1.00 37.99	A A
	MOTA	15 N LEU	147	30.629	84.888 - 85.517 -		1.00 37.99	A
	ATOM	16 H LEU	$\frac{147}{147}$	29.931 30.562	84.284		1.00 37.93	A
10	ATOM	17 CA LEU 18 CB LEU	147	31.411	85.107		1.00 38.26	A
10	MOTA MOTA	19 CG LEU	147	31.994	84.349		1.00 39.33	A
	ATOM	20 CD1 LEU	147	33.183	83.510		1.00 33.15	A
	ATOM	21 CD2 LEU	147	32.389	85.347	-9.567	1.00 38.31	A
	ATOM	22 C LEU	147	29.156	84.164	-12.181	1.00 36.60	A
15	ATOM	23 O LEU	147	28.417	85.142		1.00 37.06	A
	ATOM	24 N ASP	148	28.780	82.966		1.00 36.31	A
	ATOM	25 H ASP	148	29.384	82.200		1.00 0.00	A A
	MOTA	26 CA ASP	148	27.468 26.836	82.788 81.461		1.00 33.40 1.00 35.41	A
20	MOTA	27 CB ASP 28 CG ASP	$\frac{148}{148}$	26.085		-12.925	1.00 33.41	Ā
20	ATOM ATOM	28 CG ASP 29 OD1 ASP	148	25.783		-13.531	1.00 32.84	A
	ATOM	30 OD2 ASP	148	25.795		-13.376	1.00 33.54	A
	ATOM	31 C ASP	148	27.695	82.829	-9.622	1.00 28.37	A
	MOTA	32 O ASP	148	28.475	82.050	-9.070	1.00 26.95	A
25	MOTA	33 N ILE	149	27.027	83.767	-8.961	1.00 25.21	A
	MOTA	34 H ILE	149	26.411	84.349	-9.453	1.00 0.00	A
	ATOM	35 CA ILE	149	27.179	83.957	-7.529 -7.229	1.00 24.78 1.00 25.55	A A
	ATOM	36 CB ILE	149	27.883	85.308 85.509	-5.718	1.00 23.33	A
30	MOTA	37 CG2 ILE 38 CG1 ILE	149 149	28.047 29.233	85.363	-7.947	1.00 21.46	A
30	MOTA MOTA	39 CD1 ILE	149	29.730	86.775	-8.168	1.00 25.74	A
	ATOM	40 C ILE	149	25.853	83.957	-6.786	1.00 27.12	A
	ATOM	41 O ILE	149	24.957	84.737	-7.097	1.00 27.87	A
	ATOM	42 N VAL	150	25.748	83.101	-5.780	1.00 29.44	A
35	MOTA	43 H VAL	150	26.498	82.509	-5.564	1.00 0.00	A
	MOTA	44 CA VAL	150	24.525	83.031	-4.990	1.00 31.56	A A
	MOTA	45 CB VAL	150	23.914	81.612	-5.015 -3.871	1.00 33.68 1.00 36.22	A A
	ATOM	46 CG1 VAL 47 CG2 VAL	150 150	22.921 23.218	81.433 81.387	-6.339	1.00 35.65	A
40	ATOM ATOM	47 CG2 VAL 48 C VAL	150	24.751	83.443	-3.543	1.00 29.32	A
40	MOTA	49 O VAL	150	25.643	82.939	-2.849	1.00 27.25	A
	MOTA	50 N ILE	151	23.936	84.383	-3.096	1.00 29.18	A
	MOTA	51 H ILE	151	23.269	84.772	-3.699	1.00 0.00	A
	MOTA	52 CA ILE	151	24.016	84.847	-1.724	1.00 28.46	A
45	ATOM	53 CB ILE	151	23.614	86.340	-1.625	1.00 27.62 1.00 24.70	A A
	MOTA	54 CG2 ILE	151	23.843 24.457	86.860 87.167	-0.209 -2.607	1.00 24.70	A
	MOTA	55 CG1 ILE 56 CD1 ILE	151 151	23.788	87.443	-3.933	1.00 28.07	A
	ATOM ATOM	57 C ILE	151	23.763	83.964	-0.908	1.00 26.00	A
50	ATOM	58 O ILE	151	21.923	83.721	-1.307	1.00 25.72	A
50	ATOM	59 N VAL	152	23.575	83.445	0.199	1.00 22.21	A
	MOTA	60 H VAL	152	24.506	83.650	0.427	1.00 0.00	A
	MOTA	61 CA VAL	152	22.813	82.581	1.099	1.00 23.05	A
	ATOM	62 CB VAL	152	23.585	81.247	1.402	1.00 26.59	A A
55	MOTA	63 CG1 VAL	152	22.665 24.102	80.246 80.628	2.127 0.094	1.00 25.59 1.00 21.54	A
	MOTA	64 CG2 VAL 65 C VAL	152 152	22.689	83.412	2.366	1.00 20.44	Ā
	ATOM ATOM	65 C VAL 66 O VAL	152	23.554	83.369	3.246	1.00 14.87	A
	ATOM	67 N LEU	153	21.613	84.180	2.442	1.00 20.46	A
60	ATOM	68 H LEU	153	20.950	84.144	1.721	1.00 0.00	A
00	ATOM	69 CA LEU	153	21.384	85.071	3.563	1.00 19.62	A
	MOTA	70 CB LEU	153	20.780	86.370	3.044	1.00 27.82	A
	ATOM	71 CG LEU	153	20.357	87.482	4.001	1.00 29.39	A
	MOTA	72 CD1 LEU	153	21.555	88.057	4.739	1.00 32.60	A
65	ATOM	73 CD2 LEU	153	19.683	88.565	3.170	1.00 34.32	A A
	ATOM	74 C LEU	153	20.518 19.360	84.490 84.122	4.659 4.445	1.00 22.92 1.00 20.87	A A
	ATOM	75 O LEU	153 154	21.101		5.846	1.00 20.52	A
	ATOM	76 N ASP 77 H ASP	154	22.026	84.747	5.930	1.00 0.00	A
70	ATOM ATOM	78 CA ASP	154	20.439		7.020	1.00 20.46	A
, 0	ATOM	70 CA ASP	154	21.506		8.078	1.00 22.44	A
	MOTA	80 CG ASP	154	20.946	83.418	9.462	1.00 20.33	A
	MOTA	81 OD1 ASP	154	19.773		9.617	1.00 25.28	A

	ATOM	82 0	DD2 ASP	154	21.709	83.658	10.408	1.00 17.38	A
	ATOM	83 (154	19.463	85.012	7.445	1.00 24.81	A
	ATOM) ASP	154	19.850	86.170	7.680	1.00 19.94	A
	MOTA		N GLY	155	18.186	84.645	7.491	1.00 22.66	A
5	ATOM		H GLY	155	17.945	83.724	7.270	1.00 0.00	A
J	MOTA		CA GLY	155	17.154	85.583	7.865	1.00 25.80	A
	ATOM		C GLY	155	16.573	85.333	9.242	1.00 27.90	A
	ATOM		O GLY	155	15.411	85.623	9.465	1.00 30.07	A
	ATOM		N SER	156	17.363	84.783	10.158	1.00 29.73	A
10	ATOM		H SER	156	18.280	84.539	9.917	1.00 0.00	A
	ATOM		CA SER	156	16.887	84.533	11.519	1.00 33.03	A
	ATOM		CB SER	156	17.956	83.778	12.327	1.00 33.06	A
	ATOM		OG SER	156	18.696	84.658	13.163	1.00 34.46	A
	ATOM		HG SER	156	19.354	84.158	13.652	1.00 0.00	A
15	ATOM		C SER	156	16.589	85.896	12.162	1.00 28.30	A
10	ATOM		O SER	156	16.928	86.935	11.595	1.00 32.92	A
	ATOM		N ASN	157	15.958	85.892	13.335	1.00 27.00	A
	ATOM		H ASN	157	15.732	85.033	13.746	1.00 0.00	A
	ATOM		CA ASN	157	15.591	87.140	14.032	1.00 22.66	A
20	ATOM		CB ASN	157	14.545	86.871	15.127	1.00 24.65	A
	ATOM		CG ASN	157	13.322	86.095	14.644	1.00 26.95	A
	MOTA		OD1 ASN	157	12.722	85.354	15.422	1.00 22.76	A
	ATOM	104	ND2 ASN	157	12.941	86.269	13.380	1.00 23.43	A
	ATOM	105 H	D21 ASN	157	13.442	86.879	12.800	1.00 0.00	A
25	MOTA	106 H	D22 ASN	157	12.156	85.772	13.074	1.00 0.00	A
	ATOM	107	C ASN	157	16.724	87.922	14.717	1.00 20.73	A
	ATOM	108	O ASN	157	16.488	89.024	15.179	1.00 19.35	A
	MOTA	109	n ser	158	17.936	87.382	14.804	1.00 20.15	A
	MOTA	110	H SER	158	18.117	86.511	14.395	1.00 0.00	A
30	MOTA	111	CA SER	158	19.005	88.099	15.519	1.00 17.25	A
	MOTA	112	CB SER	158	20.003	87.095	16.115	1.00 18.79	A
	MOTA	113	OG SER	158	20.309	86.048	15.204	1.00 21.49	A
	MOTA	114	HG SER	158	20.692	86.418	14.407	1.00 0.00	A
	MOTA		C SER	158	19.764	89.191	14.750	1.00 19.11	A
35	MOTA		O SER	158	20.168	90.196	15.331	1.00 15.49	A
	MOTA		N ILE	159	19.985	88.994	13.462	1.00 19.24 1.00 0.00	A A
	MOTA		H ILE	159	19.683	88.164	13.037	1.00 0.00 1.00 24.70	A
	MOTA		CA ILE	159	20.674	90.002 89.596	12.670 11.193	1.00 25.84	A
40	ATOM		CB ILE	159	20.702	90.750	10.347	1.00 23.84	A
40	ATOM		CG2 ILE	159	21.185 21.602	88.366	11.029	1.00 30.68	A
	ATOM		CG1 ILE	159	21.058	87.313	10.092	1.00 36.48	A
	ATOM		CD1 ILE	159 159	19.755	91.188	12.863	1.00 29.72	A
	MOTA		C ILE	159	18.733	91.293	12.201	1.00 27.59	A
45	ATOM		O ILE N TYR	160	20.099	92.098	13.764	1.00 32.64	A
45	ATOM ATOM		H TYR	160	20.953	92.057	14.240	1.00 0.00	A
	ATOM		CA TYR	160	19.142	93.153	13.995	1.00 36.31	A
	MOTA	129	CB TYR	160	19.262	93.759	15.384	1.00 29.60	A
	ATOM		CG TYR	160	18.250	94.871	15.541	1.00 25.36	A
50	MOTA		CD1 TYR	160	16.953	94.731	15.034	1.00 30.44	A
50	ATOM		CE1 TYR	160	16.027	95.768	15.113	1.00 28.80	A
	ATOM	133	CD2 TYR	160	18.597	96.077	16.131	1.00 22.43	A
	ATOM	134	CE2 TYR	160	17.686	97.118	16.218	1.00 29.79	A
	ATOM	135	CZ TYR	160	16.406	96.958	15.706	1.00 29.67	A
55	MOTA	136	OH TYR	160	15.514	97.989	15.801	1.00 35.06	A
	MOTA	137	HH TYR	160	14.682	97.730	15.399	1.00 0.00	A
	ATOM	138	C TYR	160	19.015	94.279	13.018	1.00 38.57	A
	ATOM	139	O TYR	160	18.019	94.342	12.297	1.00 45.05	A
	MOTA	140	N PRO	161	19.992	95.194	12.969	1.00 34.46	A
60	ATOM	141	CD PRO	161	21.298	95.354	13.624	1.00 23.12	A
	ATOM	142	CA PRO	161	19.727	96.237	11.978	1.00 32.11	A
	ATOM	143	CB PRO	161	20.946	97.155	12.068	1.00 30.05	A
	MOTA	144	CG PRO	161	21.657	96.769	13.287	1.00 34.00	A
	MOTA	145	C PRO	161	19.578	95.579	10.605	1.00 30.24	A
65	ATOM	146	O PRO	161	20.555	95.434	9.878	1.00 29.38	A
	MOTA	147	N TRP	162	18.365	95.167	10.254	1.00 28.87	A
	MOTA	148	H TRP	162	17.603	95.296	10.855	1.00 0.00	A
	ATOM	149	CA TRP	162	18.180	94.525	8.970	1.00 29.54	A
	MOTA	150	CB TRP	162	16.725	94.114	8.744	1.00 28.05	A
70	ATOM	151	CG TRP	162	16.577	93.324	7.456	1.00 27.54	Α
	MOTA	152	CD2 TRP	162	17.115	92.017	7.176	1.00 22.18	A A
	ATOM	153	CE2 TRP	162	16.795	91.710	5.837 7.935	1.00 27.60 1.00 22.75	A A
	MOTA	154	CE3 TRP	162	17.831	91.081	1.333	1.00 22.73	А

	ATOM	155	CD1 TRP	162	15.976	93.740	6.304	1.00 27.18	A
	ATOM	156	NE1 TRP	162	16.103	92.779	5.324	1.00 31.45	A
	MOTA	157	HE1 TRP	162	15.756	92.847	4.416	1.00 0.00	A
_	MOTA	158	CZ2 TRP	162	17.169	90.503	5.230	1.00 25.17	A
5	MOTA	159	CZ3 TRP	162	18.201	89.879	7.343	1.00 21.51	A
	MOTA	160	CH2 TRP	162	17.872	89.601	5.998 7.825	1.00 27.23 1.00 32.23	A A
	MOTA	161	C TRP O TRP	162 162	18.644 19.318	95.419 94.945	6.914	1.00 32.23	A
	ATOM ATOM	162 163	N GLU	163	18.314	96.708	7.859	1.00 34.04	A
10	ATOM	164	H GLU	163	17.794	97.072	8.607	1.00 0.00	A
10	ATOM	165	CA GLU	163	18.744	97.572	6.757	1.00 36.74	A
	MOTA	166	CB GLU	163	18.235	99.011	6.936	1.00 33.42	A
	ATOM	167	CG GLU	163	17.941	99.437	8.355	1.00 41.87	A
	ATOM	168	CD GLU	163	18.085	100.938	8.529	1.00 43.51	A
15	ATOM	169	OE1 GLU	163	19.238	101.426	8.588	1.00 44.11	A A
	MOTA	170 171	OE2 GLU C GLU	163 163	17.047 20.267	101.629 97.578	8.597 6.566	1.00 39.73 1.00 35.78	A
	ATOM ATOM	172	C GLU O GLU	163	20.769	98.002	5.519	1.00 33.70	A
	ATOM	173	N SER	164	20.987	97.083	7.574	1.00 35.57	A
20	ATOM	174	H SER	164	20.516	96.748	8.364	1.00 0.00	A
	ATOM	175	CA SER	164	22.443	97.024	7.547	1.00 31.38	A
	MOTA	176	CB SER	164	22.990	96.956	8.968	1.00 30.80	A
	ATOM	177	OG SER	164	22.876	98.211	9.605	1.00 37.22	A
25	MOTA	178	HG SER	164	23.225	98.151	10.498 6.751	1.00 0.00 1.00 32.24	A A
25	MOTA MOTA	179 180	C SER O SER	164 164	22.964 24.084		6.231	1.00 32.24	A
	ATOM	181	N VAL	165	22.171		6.688	1.00 31.62	A
	ATOM	182	H VAL	165	21.316	94.783	7.165	1.00 0.00	A
	MOTA	183	CA VAL	165	22.553	93.602	5.916	1.00 31.01	A
30	MOTA	184	CB VAL	165	21.623		6.164	1.00 35.77	A
	ATOM	185	CG1 VAL	165	22.339	91.110	5.787	1.00 39.39	A
	MOTA	186	CG2 VAL	165	21.177 22.328		7.607 4.493	1.00 40.80 1.00 32.48	A A
	ATOM ATOM	187 188	C VAL O VAL	165 165	23.156		3.609	1.00 32.48	A
35	ATOM	189	N ILE	166	21.187		4.297	1.00 33.35	A
33	ATOM	190	H ILE	166	20.586		5.058	1.00 0.00	A
	ATOM	191	CA ILE	166	20.789		2.997	1.00 32.78	A
	MOTA	192	CB ILE	166	19.382		3.078	1.00 31.47	A
40	MOTA	193	CG2 ILE	166	19.056		1.783	1.00 32.21	A
40	ATOM	194	CG1 ILE	166 166	18.346 16.917		3.419 3.048	1.00 30.98 1.00 25.05	A A
	MOTA MOTA	195 196	CD1 ILE C ILE	166	21.800		2.504	1.00 23.05	A
	MOTA	197	O ILE	166	22.159		1.326	1.00 31.98	A
	ATOM	198	N ALA	167	22.260		3.410	1.00 31.52	A
45	MOTA	199	H ALA	167	21.947		4.337	1.00 0.00	A
	MOTA	200	CA ALA	167	23.228		3.047	1.00 33.64	A
	ATOM	201	CB ALA	167	23.540		4.253 2.539	1.00 29.88 1.00 35.05	A A
	ATOM ATOM	202 203	C ALA O ALA	167 167	24.502 25.176		1.630	1.00 30.30	A
50	ATOM	204	N PHE	168	24.821		3.141	1.00 31.11	A
50	ATOM	205	H PHE	168	24.245		3.864	1.00 0.00	A
	MOTA	206	CA PHE	168	25.987	95.572	2.771	1.00 28.96	A
	MOTA	207	CB PHE	168	26.214		3.835	1.00 32.92	A
۔ ہ	ATOM	208	CG PHE	168	27.007		3.371	1.00 29.30	A
55	MOTA	209	CD1 PHE CD2 PHE	168 168	26.378 28.386		3.111 3.266	1.00 31.94 1.00 26.68	A A
	ATOM ATOM	210 211	CE1 PHE	168	27.104		2.760	1.00 28.37	A
	ATOM	212	CE2 PHE	168	29.128		2.913	1.00 31.48	A
	ATOM	213	CZ PHE	168	28.481		2.660	1.00 33.94	A
60	ATOM	214	C PHE	168	25.736		1.395	1.00 30.36	A
	ATOM	215	O PHE	168	26.549		0.482	1.00 25.57	A
	ATOM	216	N LEU	169	24.602		1.241	1.00 29.42	A
	ATOM	217	H LEU	169	23.985		1.997 -0.037	1.00 0.00 1.00 32.92	A A
65	ATOM	218 219	CA LEU CB LEU	169 169	24.262 22.835		-0.037	1.00 32.32	A
05	ATOM ATOM	219	CG LEU	169	22.485		0.773	1.00 30.40	A
	ATOM	221	CD1 LEU	169	21.107		0.309	1.00 23.84	A
	ATOM	222	CD2 LEU	169	23.504		0.549	1.00 22.89	A
	MOTA	223	C LEU	169	24.371	94.717	-1.148	1.00 36.13	A
70	ATOM	224	O LEU	169	24.992		-2.181	1.00 37.86	A
	ATOM	225	N ASN	170	23.760		-0.920	1.00 39.95	A a
	ATOM	226	H ASN	170 170	23.279 23.779		-0.078 -1.882	1.00 0.00 1.00 35.60	A A
	MOTA	227	CA ASN	T / U	43.773	, ,0.511	1.002	1.00 33.00	A

	ATOM	228 CB ASN	170	23.040 98.179 -1.275 1.00 40.87	A
	ATOM	229 CG ASN	170	23.122 99.427 -2.140 1.00 45.43	Α
	ATOM	230 OD1 ASN	170	24.008 100.268 -1.958 1.00 38.53	Α
	MOTA	231 ND2 ASN	170	22.191 99.558 -3.083 1.00 44.25	A
5	MOTA	232 HD21 ASN	170	21.503 98.868 -3.188 1.00 0.00	A
	ATOM	233 HD22 ASN	170	22.229 100.355 -3.648 1.00 0.00	A
	ATOM	234 C ASN	170	25.221 97.354 -2.203 1.00 37.08 25.590 97.546 -3.360 1.00 36.45	A A
	MOTA	235 O ASN	$\frac{170}{171}$	25.590 97.546 -3.360 1.00 36.45 26.022 97.444 -1.149 1.00 41.63	A
10	MOTA	236 N ASP 237 H ASP	171 171	25.640 97.256 -0.267 1.00 0.00	A
10	MOTA MOTA	237 H ASP 238 CA ASP	171	27.430 97.805 -1.219 1.00 45.96	A
	ATOM	239 CB ASP	171	27.984 97.921 0.205 1.00 49.80	A
	ATOM	240 CG ASP	171	28.976 99.051 0.360 1.00 58.06	Α
	ATOM	241 OD1 ASP	171	28.606 100.218 0.111 1.00 61.54	Α
15	ATOM	242 OD2 ASP	171	30.131 98.771 0.738 1.00 60.67	Α
	MOTA	243 C ASP	171	28.286 96.815 -2.018 1.00 47.51	A
	MOTA	244 O ASP	171	29.263 97.214 -2.656 1.00 45.54	A
	MOTA	245 N LEU	172	27.923 95.535 -1.972 1.00 44.73 27.131 95.289 -1.448 1.00 0.00	A A
20	MOTA	246 H LEU	172		A
20	MOTA	247 CA LEU 248 CB LEU	172 172	28.658 94.480 -2.675 1.00 43.36 28.434 93.125 -1.985 1.00 37.47	A
	ATOM ATOM	248 CB LEU 249 CG LEU	172	29.574 92.102 -1.869 1.00 35.42	A
	ATOM	250 CD1 LEU	172	29.011 90.764 -1.398 1.00 32.59	А
	ATOM	251 CD2 LEU	172	30.274 91.926 -3.189 1.00 32.89	Α
25	ATOM	252 C LEU	172	28.214 94.362 -4.122 1.00 43.76	А
	ATOM	253 O LEU	172	29.013 94.070 -5.011 1.00 42.82	A
	ATOM	254 N LEU	173	26.928 94.587 -4.345 1.00 45.41	A
	MOTA	255 H LEU	173	26.349 94.834 -3.595 1.00 0.00	A
20	MOTA	256 CA LEU	173	26.354 94.481 -5.674 1.00 49.41 24.837 94.308 -5.561 1.00 52.76	A A
30	ATOM	257 CB LEU	173 173	24.837 94.308 -5.561 1.00 52.76 24.329 92.938 -5.089 1.00 54.19	A
	MOTA	258 CG LEU 259 CD1 LEU	173	24.148 92.038 -6.294 1.00 59.26	A
	MOTA ATOM	260 CD2 LEU	173	25.302 92.305 -4.110 1.00 54.13	A
	ATOM	261 C LEU	173	26.681 95.681 -6.552 1.00 51.49	Α
35	ATOM	262 O LEU	173	27.079 95.521 -7.708 1.00 46.63	Α
	ATOM	263 N LYS	174	26.523 96.882 -5.997 1.00 51.16	A
	MOTA	264 H LYS	174	26.220 96.946 -5.068 1.00 0.00	A
	MOTA	265 CA LYS	174	26.794 98.096 -6.751 1.00 51.25	A
40	ATOM	266 CB LYS	174	26.615 99.330 -5.862 1.00 50.79 27.294 99.251 -4.513 1.00 49.59	A A
40	MOTA	267 CG LYS	174 174	26.659 100.247 -3.542 1.00 48.26	A
	MOTA MOTA	268 CD LYS 269 CE LYS	$\frac{174}{174}$	27.707 100.970 -2.714 1.00 41.18	A
	ATOM	270 NZ LYS	174	28.712 101.644 -3.574 1.00 37.27	A
	ATOM	271 HZ1 LYS	174	28.236 102.341 -4.183 1.00 0.00	Α
45	ATOM	272 HZ2 LYS	174	29.192 100.937 -4.168 1.00 0.00	Α
	MOTA	273 HZ3 LYS	174	29.413 102.127 -2.977 1.00 0.00	A
	MOTA	274 C LYS	174	28.181 98.114 -7.384 1.00 48.99	A
	ATOM	275 O LYS	174	28.439 98.906 -8.276 1.00 49.73	A n
50	MOTA	276 N ARG	175	29.066 97.237 -6.928 1.00 51.76 28.807 96.620 -6.212 1.00 0.00	A A
50	MOTA	277 H ARG 278 CA ARG	175 175	28.807 96.620 -6.212 1.00 0.00 30.422 97.174 -7.471 1.00 54.88	A
	MOTA MOTA	270 CA ARG	175	31.400 96.730 -6.378 1.00 60.59	A
	MOTA	280 CG ARG	175	32.257 97.853 -5.813 1.00 69.97	Α
	ATOM	281 CD ARG	175	32.030 98.026 -4.320 1.00 76.88	Α
55	ATOM	282 NE ARG	175	32.502 99.320 -3.832 1.00 82.84	Α
	ATOM	283 HE ARG	175	33.238 99.324 -3.186 1.00 0.00	A
	MOTA	284 CZ ARG	175	31.996 100.490 -4.208 1.00 86.91	A
	ATOM	285 NH1 ARG	175	30.996 100.535 -5.080 1.00 88.00	A
CO	ATOM	286 HH11 ARG	175	30.620 99.687 -5.452 1.00 0.00 30.617 101.416 -5.361 1.00 0.00	A A
60	ATOM	287 HH12 ARG	175 175	30.617 101.416 -5.361 1.00 0.00 32.492 101.619 -3.712 1.00 88.60	A
	MOTA	288 NH2 ARG 289 HH21 ARG	175	33.245 101.588 -3.054 1.00 0.00	A
	ATOM ATOM	290 HH22 ARG	175	32.112 102.499 -3.996 1.00 0.00	A
	ATOM	291 C ARG	175	30.543 96.231 -8.675 1.00 52.71	A
65	ATOM	292 O ARG	175	31.308 96.486 -9.604 1.00 51.98	Α
	ATOM	293 N MET	176	29.777 95.147 -8.654 1.00 49.83	Α
	ATOM	294 H MET	176	29.175 95.007 -7.894 1.00 0.00	A
	MOTA	295 CA MET	176	29.805 94.159 -9.720 1.00 44.82	A
	ATOM	296 CB MET	176	29.033 92.907 -9.306 1.00 39.16	A
70	ATOM	297 CG MET	176	29.372 92.339 -7.956 1.00 37.27 28.290 90.955 -7.596 1.00 40.47	A A
	MOTA	298 SD MET	176	28.290 90.955 -7.596 1.00 40.47 29.105 90.252 -6.182 1.00 36.51	A
	ATOM	299 CE MET 300 C MET	176 176	29.103 90.232 -6.162 1.00 36.31	A
	MOTA		7/0	77.200 71.001 11.020 1.00	

	MOTA	301	O MET	176	28.361	95.542 -11.049	1.00 46.58	A
	ATOM	302	N ASP	177	29.656	94.035 -12.118	1.00 51.49	A
	MOTA	303	H ASP	177	30.352	93.353 -12.016	1.00 0.00	A
	MOTA	304	CA ASP	177	29.157	94.329 -13.457	1.00 54.36	A
5	MOTA	305	CB ASP	177	30.322	94.519 -14.441	1.00 56.10	A
	MOTA	306	CG ASP	177	30.746	95.974 -14.586	1.00 60.14	A
	MOTA	307	OD1 ASP	177	31.960	96.219 -14.732	1.00 58.72	A
	MOTA	308	OD2 ASP	177	29.874	96.868 -14.559	1.00 61.23	A
	MOTA	309	C ASP	177	28.366	93.070 -13.833	1.00 54.37	A
10	ATOM	310	O ASP	177	28.944	92.089 -14.304	1.00 54.71	A
	ATOM	311	N ILE	178	27.056	93.088 -13.603	1.00 50.87	A
	ATOM	312	H ILE	178	26.644	93.892 -13.226	1.00 0.00	A
	ATOM	313	CA ILE	178	26.220	91.929 -13.905	1.00 50.24	A
	ATOM	314	CB ILE	178	24.921	91.933 -13.041	1.00 49.66	A
15	ATOM	315	CG2 ILE	178	24.214	90.581 -13.131	1.00 49.10	A
	MOTA	316	CG1 ILE	178	25.275	92.217 -11.576	1.00 50.99	A
	MOTA	317	CD1 ILE	178	24.125	92.001 -10.593	1.00 52.23	A
	MOTA	318	C ILE	178	25.855	91.871 -15.386	1.00 48.57	A
	MOTA	319	O ILE	178	25.743	92.905 -16.040	1.00 50.81	A
20	MOTA	320	N GLY	179	25.689	90.654 -15.902	1.00 48.26	A
	ATOM	321	H GLY	179	25.801	89.873 -15.324	1.00 0.00	A
	MOTA	322	CA GLY	179	25.341	90.453 -17.300	1.00 47.18	A
	MOTA	323	C GLY	179	25.483	88.993 -17.708	1.00 47.42	A
25	ATOM	324	O GLY	179	26.366	88.302 -17.203	1.00 44.46	A A
25	ATOM	325	N PRO	180	24.635	88.489 -18.621 89.194 -19.313	1.00 48.62 1.00 50.81	A A
	ATOM	326	CD PRO	180	23.543 24.730	87.084 -19.046	1.00 49.53	A
	MOTA	327	CA PRO CB PRO	180 180	23.635	86.946 -20.107	1.00 43.33	A
	ATOM	328 329	CB PRO CG PRO	180	22.692	88.070 -19.837	1.00 52.71	A
30	ATOM ATOM	330	C PRO	180	26.104	86.712 -19.597	1.00 52.68	A
30	ATOM	331	O PRO	180	26.359	85.541 -19.902	1.00 53.20	A
	ATOM	332	N LYS	181	26.983	87.706 -19.716	1.00 49.61	A
	ATOM	333	H LYS	181	26.720	88.610 -19.445	1.00 0.00	A
	MOTA	334	CA LYS	181	28.324	87.485 -20.238	1.00 49.94	A
35	MOTA	335	CB LYS	181	28.517	88.279 -21.535	1.00 52.40	A
	MOTA	336	CG LYS	181	27.413	88.064 -22.577	1.00 52.89	A
	ATOM	337	CD LYS	181	27.111	86.588 -22.801	1.00 50.48	A
	ATOM	338	CE LYS	181	28.125	85.942 -23.735	1.00 54.32	A
	ATOM	339	NZ LYS	181	29.156	85.176 -22.981	1.00 54.02	A
40	ATOM	340	HZ1 LYS	181	28.696	84.425 -22.427	1.00 0.00	A
	ATOM	341	HZ2 LYS	181	29.664	85.818 -22.338	1.00 0.00	A
	MOTA	342	HZ3 LYS	181	29.830	84.750 -23.648	1.00 0.00	A
	ATOM	343	C LYS	181	29.389	87.882 -19.223	1.00 49.03 1.00 44.77	A
1 =-	ATOM	344	O LYS	181	30.575	87.943 -19.544 88.150 -17.997	1.00 44.77	A A
45	ATOM	345	N GLN	182	28.953 27.997	88.071 -17.806	1.00 49.13	A
	ATOM ATOM	346 347	H GLN CA GLN	182 182	29.855	88.549 -16.927	1.00 47.58	A
	ATOM	347	CB GLN	182	30.657	89.802 -17.332	1.00 52.30	A
	MOTA	349	CG GLN	182	29.961	91.148 -17.105	1.00 56.19	A
50	MOTA	350	CD GLN	182	29.400	91.760 -18.381	1.00 59.68	A
50	ATOM	351	OE1 GLN	182	28.651	92.742 -18.337	1.00 59.75	A
	ATOM	352	NE2 GLN	182	29.759	91.184 -19.526	1.00 62.02	A
	ATOM		HE21 GLN	182	30.356	90.408 -19.515	1.00 0.00	A
	ATOM		HE22 GLN	182	29.407	91.567 -20.355	1.00 0.00	A
55	ATOM	355	C GLN	182	29.039	88.817 -15.673	1.00 46.05	A
	ATOM	356	O GLN	182	28.205	89.720 -15.635	1.00 52.56	A
	ATOM	357	N THR	183	29.279	88.007 -14.655	1.00 43.42	A
	MOTA	358	H THR	183	29.952	87.304 -14.768	1.00 0.00	A
	MOTA	359	CA THR	183	28.590	88.107 -13.367	1.00 39.86	A
60	MOTA	360	CB THR	183	28.994	89.369 -12.571	1.00 38.78	A
	MOTA	361	OG1 THR	183	30.422	89.443 -12.473	1.00 33.64	A
	ATOM	362	HG1 THR	183	30.753	88.664 -12.022	1.00 0.00	A
	MOTA	363	CG2 THR	183	28.407	89.303 -11.165	1.00 36.70	A
	MOTA	364	C THR	183	27.073	88.054 -13.388	1.00 40.16	A
65	MOTA	365	O THR	183	26.397	88.889 -14.001	1.00 37.82	A
	MOTA	366	N GLN	184	26.565	87.044 -12.692	1.00 38.77	A A
	MOTA	367	H GLN	184	27.185	86.424 -12.260	1.00 0.00	A A
	ATOM	368	CA GLN	184	25.148	86.805 -12.534	1.00 32.70 1.00 39.22	A A
70	ATOM	369	CB GLN	184	24.755	85.500 -13.199 85.502 -14.684	1.00 39.22	A
70	ATOM	370	CG GLN	184 184	24.950 23.866	84.736 -15.379	1.00 38.77	A
	ATOM	371 372	CD GLN OE1 GLN	184	23.633	83.563 -15.081	1.00 34.86	Ā
	MOTA MOTA	373	NE2 GLN	184	23.182	85.395 -16.306	1.00 36.73	A
	AION	3/3	TALLS GLIM	70-7	23.102			==

	MOTA	37 4 I	HE21 GLN	184	23.400		-16.503	1.00 0.00	A
	MOTA	375 I		184	22.470		-16.770	1.00 0.00	A
	MOTA	376	C GLN	184	24.956		-11.032	1.00 34.89 1.00 31.60	A A
5	ATOM	377	O GLN	184 185	25.816 23.819		-10.331 -10.552	1.00 31.00	A
3	ATOM ATOM	378 379	N VAL H VAL	185	23.168	87.567	-11.175	1.00 0.00	A
	ATOM	380	CA VAL	185	23.510	87.179	-9.129	1.00 33.81	A
	MOTA	381	CB VAL	185	23.602	88.617	-8.545	1.00 35.05	A
	MOTA	382	CG1 VAL	185	23.088	88.636	-7.094	1.00 35.71	A
10	MOTA	383	CG2 VAL	185	25.048	89.115	-8.612	1.00 16.86 1.00 34.96	A A
	ATOM	384 385	C VAL O VAL	185 1 85	22.137 21.129	86.604 86.859	-8.772 -9.441	1.00 34.90	A
	ATOM ATOM	386	N GLY	186	22.129	85.830	-7.691	1.00 29.37	A
	ATOM	387	H GLY	186	22.968	85.675	-7.209	1.00 0.00	A
15	ATOM	388	CA GLY	186	20.915	85.215	-7.208	1.00 33.55	A
	MOTA	389	C GLY	186	20.922	85.345	-5.706	1.00 30.62	A
	ATOM	390	O GLY	186	21.978 19.751	85.507 85.285	-5.092 -5.100	1.00 38.55 1.00 29.16	A A
	ATOM ATOM	391 392	N ILE H ILE	187 187	18.935	85.152	-5.626	1.00 23.10	A
20	MOTA	393	CA ILE	187	19.667	85.411	-3.657	1.00 29.27	A
	MOTA	394	CB ILE	187	19.244	86.832	-3.222	1.00 23.80	A
	MOTA	395	CG2 ILE	187	19.187	86.902	-1.708	1.00 21.78	A
	ATOM	396	CG1 ILE	187	20.223	87.869	-3.771 -3.200	1.00 25.79 1.00 26.87	A A
25	ATOM ATOM	397 398	CD1 ILE C ILE	187 187	18.656	89.264 84.456	-3.200	1.00 28.09	A
23	ATOM	399	O ILE	187	17.537	84.337	-3.549	1.00 26.92	A
	MOTA	400	N VAL	188	19.057	83.793	-1.989	1.00 31.92	A
	MOTA	401	H VAL	188	19.971	83.924	-1.660	1.00 0.00	A
20	MOTA	402	CA VAL	188	18.175	82.877	-1.288 -1.538	1.00 31.88 1.00 30.39	A A
30	MOTA ATOM	403 404	CB VAL CG1 VAL	188 188	18.598 18.918	81.408 80.702	-0.221	1.00 30.33	A
	ATOM	405	CG2 VAL	188	17.478	80.688	-2.276	1.00 31.57	A
	ATOM	406	C VAL	188	18.271	83.226	0.198	1.00 30.17	A
2-	MOTA	407	O VAL	188	19.362	83.436	0.719	1.00 29.85	A
35	MOTA	408	N GLN	189 189	17.132 16.278	83.332 83.201	0.869 0.405	1.00 26.31 1.00 0.00	A A
	ATOM ATOM	409 410	H GLN CA GLN	189	17.146	83.644	2.288	1.00 27.42	A
	ATOM	411	CB GLN	189	16.219	84.830	2.629	1.00 25.02	A
	ATOM	412	CG GLN	189	16.196	85.140	4.141	1.00 21.62	A
40	ATOM	413	CD GLN	189	15.631	86.506	4.495	1.00 22.57	A A
	ATOM	414 415	OE1 GLN NE2 GLN	189 189	15.554 15.230	86.867 87.263	5.668 3.487	1.00 23.48 1.00 26.01	A
	MOTA MOTA		HE21 GLN	189	15.304	86.940	2.567	1.00 0.00	A
	MOTA		HE22 GLN	189	14.866	88.147	3.709	1.00 0.00	A
45	MOTA	418	C GLN	189	16.679	82.392	3.000	1.00 23.00	A
	ATOM	419	O GLN	189	15.882	81.631 82.171	$\frac{2.463}{4.202}$	1.00 23.43 1.00 22.53	A A
	ATOM	420 421	N TYR H TYR	190 190	17.184 17.820	82.811	4.202	1.00 22.33	A
	ATOM ATOM	422	CA TYR	190	16.811	80.993		1.00 26.52	A
50	ATOM	423	CB TYR	190	17.837	79.883	4.726	1.00 26.90	A
	ATOM	424	CG TYR	190	19.147	80.113		1.00 17.55	A
	ATOM	425	CD1 TYR	190	19.397 20.593	79.503 79.699		1.00 15.45 1.00 17.09	A A
	ATOM ATOM	426 427	CE1 TYR CD2 TYR	190 190	20.139	80.936		1.00 14.28	A
55	MOTA	428	CE2 TYR	190	21.347	81.138		1.00 14.48	A
	MOTA	429	CZ TYR	190	21.567	80.513	6.786	1.00 15.88	A
	MOTA	430	OH TYR	190	22.749	80.701		1.00 15.41	A
	ATOM	431	HH TYR	190 190	23.313 16.694	81.297 81.265		1.00 0.00 1.00 28.88	A A
60	ATOM ATOM	432 433	C TYR O TYR	190	17.147	82.297		1.00 27.66	A
00	ATOM	434	N GLY	191	16.093	80.302		1.00 29.28	A
	ATOM	435	H GLY	191	15.773	79.511		1.00 0.00	A
	MOTA	436	CA GLY	191	15.888	80.359		1.00 26.48	A A
	ATOM	437	C GLY	191	14.655	79.507 79.953		1.00 27.88 1.00 33.37	A A
65	ATOM	438	O GLY N GLU	191 192	13.548 14.843	78.283		1.00 33.37	A
	ATOM ATOM	439 440	H GLU	192	15.753	78.004		1.00 0.00	A
	ATOM	441	CA GLU	192	13.744	77.334	9.461	1.00 34.41	A
	ATOM	442	CB GLU	192	12.504	78.026		1.00 39.00	A
70	ATOM	443	CG GLU	192	12.439	78.147		1.00 39.53 1.00 39.25	A A
	ATOM	444	CD GLU	192 192	11.319 11.611	79.079 80.085		1.00 39.25	A
	MOTA MOTA	445 446	OE1 GLU OE2 GLU	192	10.146	78.813		1.00 34.89	A
	AION	± ·± ·0	012 610	1 J L	10.110				

	ATOM	447	C GLU	192	13.384	76.697	8.111	1.00 34.47	A
	ATOM	448	O GLU	192	13.208	75.487	8.010	1.00 36.09	A
	ATOM	449	N ASN	193	13.265	77.528	7.082	1.00 33.33	A
	ATOM	450	H ASN	193	13.403	78.487	7.234	1.00 0.00	A
5	ATOM	451	CA ASN	193	12.935	77.071	5.736	1.00 35.22	A
Ū	ATOM	452	CB ASN	193	11.409	77.105	5.534	1.00 38.44	A
	ATOM	453	CG ASN	193	10.967	78.108	4.484	1.00 42.52	A
	ATOM	454	OD1 ASN	193	10.607	77.735	3.366	1.00 48.03	A
	ATOM	455	ND2 ASN	193	10.987	79.383	4.840	1.00 45.99	A
10	ATOM		HD21 ASN	193	11.275	79.633	5.739	1.00 0.00	A
	ATOM	457	HD22 ASN	193	10.705	80.040	4.172	1.00 0.00	A
	ATOM	458	C ASN	193	13.674	77.964	4.718	1.00 31.48	A
	ATOM	459	O ASN	193	14.389	78.885	5.114	1.00 32.85	A
	ATOM	460	N VAL	194	13.516	77.699	3.423	1.00 28.41	A
15	ATOM	461	H VAL	194	12.921	76.971	3.148	1.00 0.00	A
	ATOM	462	CA VAL	194	14.216	78.485	2.408	1.00 30.39	A
	MOTA	463	CB VAL	194	15.300	77.621	1.682	1.00 35.86	A
	MOTA	464	CG1 VAL	194	16.253	78.517	0.890	1.00 34.87	A
	ATOM	465	CG2 VAL	194	16.086	76.798	2.700	1.00 31.70	A
20	MOTA	466	C VAL	194	13.312	79.100	1.347	1.00 26.35	A
	MOTA	467	O VAL		12.352	78.487	0.911	1.00 25.27	A
	ATOM	468	N THR		13.629	80.327	0.938	1.00 30.82	A
	ATOM	469	H THR		14.396	80.780	1.344	1.00 0.00	A
	ATOM	470	CA THR		12.861	81.013	-0.097	1.00 32.80	A
25	MOTA	471	CB THR		11.875	82.059	0.520	1.00 32.61	A A
	ATOM	472	OG1 THR		12.435 11.821	83.370 84.005	0.439 0.819	1.00 36.07 1.00 0.00	A
	MOTA	473	HG1 THR		11.581	81.730	1.969	1.00 35.80	A
	ATOM	474 475	CG2 THR		13.832	81.698	-1.066	1.00 33.36	A
30	ATOM ATOM	475	C THR O THR		14.830	82.274	-0.638	1.00 34.30	A
30	ATOM	477	N HIS		13.562	81.610	-2.368	1.00 31.83	A
	ATOM	478	H HIS		12.767	81.117	-2.664	1.00 0.00	A
	ATOM	479	CA HIS		14.430	82.235	-3.364	1.00 33.42	A
	ATOM	480	CB HIS		14.373	81.488	-4.703	1.00 36.34	A
35	ATOM	481	CG HIS		14.682	80.027	-4.612	1.00 32.56	A
	ATOM	482	CD2 HIS		13.920	78.975	-4.231	1.00 33.30	A
	MOTA	483	ND1 HIS	196	15.885	79.493	-5.025	1.00 30.72	A
	MOTA	484	HD1 HIS	196	16.646	80.005	-5.357	1.00 0.00	A
	ATOM	485	CE1 HIS		15.850	78.181	-4.905	1.00 27.16	A
40	MOTA	486	NE2 HIS		14.669	77.839	-4.425	1.00 24.32	A
	MOTA	487	HE2 HIS		14.366	76.932	-4.234	1.00 0.00	A
	ATOM	488	C HIS		13.990	83.676	-3.600	1.00 33.69	A
	ATOM	489	O HIS		12.907	83.910	-4.147	1.00 30.28	A
15	MOTA	490	N GLU		14.825 15.670	84.633 84.376	-3.193 -2.769	1.00 32.40 1.00 0.00	A A
45	MOTA	491	H GLU		14.522	86.053	-3.357	1.00 28.21	A
	MOTA	492 493	CA GLU		15.485	86.884	-2.515	1.00 20.21	A
	ATOM ATOM	494	CG GLU		15.369	86.601	-1.025	1.00 29.25	A
	MOTA	495	CD GLU		13.980	86.880	-0.489	1.00 28.81	A
50	MOTA	496	OE1 GLU		13.154	87.429	-1.246	1.00 27.20	A
	ATOM	497	OE2 GLU		13.712	86.550	0.688	1.00 31.09	A
	MOTA	498	C GLU		14.578	86.469	-4.831	1.00 25.47	A
	ATOM	499	O GLU	r 197	13.872	87.380	-5.250	1.00 33.41	Α
	MOTA	500	N PHE	198	15.447	85.817	-5.594	1.00 28.05	A
55	MOTA	501	H PHE	198	16.035	85.161	-5.166	1.00 0.00	A
	MOTA	502	CA PHE		15.573	86.023	-7.038	1.00 29.94	A
	ATOM	503	CB PHE		15.668	87.522	-7.420	1.00 22.28	A
	MOTA	504	CG PHE		16.939	88.213	-7.021	1.00 20.44	A.
	MOTA	505	CD1 PHE		18.134	87.969	-7.696	1.00 29.59	A
60	ATOM	506	CD2 PHE		16.925	89.166	-6.015	1.00 12.83 1.00 23.18	A A
	ATOM	507	CE1 PHE		19.300	88.669	-7.376 -5.683	1.00 23.18	A
	ATOM	508	CE2 PHE		18.074	89.872 89.626	-6.364	1.00 25.57	A
	MOTA	509	CZ PHE		19.269 16.684	85.181	-7.679	1.00 26.09	A
65	ATOM	510 511	C PHE		17.787	85.048	-7.131	1.00 35.32	A
05	ATOM	512	N ASI		16.352	84.590	-8.828	1.00 33.63	A
	ATOM ATOM	513	H ASI		15.456	84.756	-9.187	1.00 0.00	A
	MOTA	514	CA ASI		17.237	83.708	-9.592	1.00 33.60	A
	ATOM	515	CB ASI		16.416	82.890	-10.596	1.00 33.43	A
70	MOTA	516	CG ASI		15.406	81.979	-9.929	1.00 35.08	A
	MOTA	517	OD1 ASN		15.458	81.743	-8.724	1.00 37.14	A
	MOTA	518	ND2 ASI		14.480	81.457	-10.717	1.00 36.96	A
	MOTA		HD21 ASN		14.477	81.669	-11.674	1.00 0.00	A

	MOTA	520 F	HD22 ASN	199	13.818	80.865 -10.306	1.00 0.00	A
	ATOM	521	C ASN	199	18.381	84.392 -10.352	1.00 37.18	A
	ATOM	522	O ASN	199	18.312	85.573 -10.690	1.00 33.75	A
	ATOM	523	N LEU	200	19.413	83.605 -10.649	1.00 35.28	A
5	MOTA	524	H LEU	200	19.374	82.663 -10.382	1.00 0.00	A
	ATOM	525	CA LEU	200	20.595	84.080 -11.357	1.00 36.97	A
	ATOM	526	CB LEU	200	21.612	82.943 -11.502	1.00 36.01	A
	ATOM	527	CG LEU	200	22.358	82.306 -10.328	1.00 32.50	A
	ATOM	528	CD1 LEU	200	21.430	81.966 -9.168	1.00 38.36	A
10	ATOM	529	CD2 LEU	200	22.997	81.034 -10.851	1.00 33.04	A
	ATOM	530	C LEU	200	20.304	84.640 -12.746	1.00 36.89	A
	ATOM	531	O LEU	200	21.069	85.453 -13.256	1.00 38.59	A
	ATOM	532	N ASN	201	19.217	84.196 -13.370	1.00 38.74	A
	MOTA	533	H ASN	201	18.633	83.546 -12.929	1.00 0.00	A
15	ATOM	534	CA ASN	201	18.891	84.676 -14.713	1.00 40.95	A
	MOTA	535	CB ASN	201	18.643	83.497 -15.666	1.00 42.74	A
	MOTA	536	CG ASN	201	17.424	82.664 -15.284	1.00 45.08	A
	MOTA	537	OD1 ASN	201	17.100	81.693 -15.969	1.00 46.68	A
	MOTA	538	ND2 ASN	201	16.746	83.032 -14.199	1.00 42.33	A
20	MOTA		HD21 ASN	201	17.038	83.811 -13.682	1.00 0.00	A
	MOTA	540 I	HD22 ASN	201	15.963	82.499 -13.952	1.00 0.00	A
	MOTA	541	C ASN	201	17.696	85.616 -14.726	1.00 41.99	A
	MOTA	542	O ASN	201	17.194	85.997 -15.785	1.00 36.95	A
	MOTA	543	N LYS	202	17.257	85.993 -13.532	1.00 43.02	A
25	MOTA	544	H LYS	202	17.711	85.657 -12.731	1.00 0.00	A
	ATOM	545	CA LYS	202	16.127	86.889 -13.378	1.00 42.25	A
	ATOM	546	CB LYS	202	15.743	86.957 -11.896	1.00 37.84	A
	ATOM	547	CG LYS	202	14.984	88.195 -11.505	1.00 39.09	A
	MOTA	548	CD LYS	202	13.486	88.011 -11.664	1.00 41.90	A
30	MOTA	549	CE LYS	202	12.851	87.494 -10.381	1.00 47.46	A
	MOTA	550	NZ LYS	202	12.961	86.005 -10.253	1.00 45.02	A
	MOTA	551	HZ1 LYS	202	13.963	85.729 -10.250	1.00 0.00	A
	MOTA	552	HZ2 LYS	202	12.479	85.552 -11.057	1.00 0.00	A A
2-	MOTA	553	HZ3 LYS	202	12.513	85.699 -9.366	1.00 0.00 1.00 40.53	A
35	MOTA	554	C LYS	202	16.443	88.287 -13.921 88.829 -14.735	1.00 40.53	A
	ATOM	555	O LYS	202	15.698 17.558	88.864 -13.486	1.00 41.00	Ā
	ATOM	556	N TYR H TYR	203 203	18.140	88.383 -12.861	1.00 41.00	A
	ATOM	557 558	H TYR CA TYR	203	17.923	90.201 -13.931	1.00 40.78	A
40	MOTA ATOM	559	CB TYR	203	18.101	91.114 -12.711	1.00 43.99	A
40	MOTA	560	CG TYR	203	16.946	91.108 -11.723	1.00 42.62	A
	MOTA	561	CD1 TYR	203	17.064	90.475 -10.483	1.00 42.17	A
	MOTA	562	CE1 TYR	203	16.027	90.492 -9.556	1.00 36.22	A
	ATOM	563	CD2 TYR	203	15.750	91.761 -12.010	1.00 44.83	A
45	ATOM	564	CE2 TYR	203	14.702	91.786 -11.086	1.00 48.25	A
	ATOM	565	CZ TYR	203	14.848	91.151 -9.860	1.00 47.45	Α
	ATOM	566	OH TYR	203	13.815	91.181 -8.942	1.00 52.58	Α
	ATOM	567	HH TYR	203	13.077	91.678 -9.304	1.00 0.00	A
	ATOM	568	C TYR	203	19.181	90.243 -14.813	1.00 42.72	A
50	ATOM	569	O TYR	203	20.014	89.335 -14.784	1.00 38.83	A
	ATOM	570	N SER	204	19.313	91.312 -15.591	1.00 43.42	A
	MOTA	571	H SER	204	18.628	92.013 -15.556	1.00 0.00	A
	MOTA	572	CA SER	204	20.445	91.476 -16.499	1.00 45.46	A
	MOTA	573	CB SER	204	19.945	91.613 -17.933	1.00 47.15	A
55	MOTA	574	OG SER	204	19.893	92.982 -18.309	1.00 49.62	A
	ATOM	575	HG SER	204	20.770	93.366 -18.244	1.00 0.00	A
	MOTA	576	C SER	204	21.312	92.691 -16.188	1.00 49.08	A
	MOTA	577	O SER	204	22.464	92.760 -16.616	1.00 48.50	A
	MOTA	578	N SER	205	20.757	93.656 -15.462	1.00 50.50	A
60	MOTA	579	H SER	205	19.839	93.549 -15.138	1.00 0.00	A
	MOTA	580	CA SER	205	21.495	94.870 -15.141	1.00 49.60	A
	ATOM	581	CB SER	205	20.634	96.098 -15.449	1.00 49.35	A A
	ATOM	582	OG SER	205	21.303	96.970 -16.345	1.00 54.35	A
65	ATOM	583	HG SER	205	22.128	97.262 -15.950 94.944 -13.699	1.00 0.00 1.00 47.82	A
65	ATOM	584	C SER	205	21.981	94.469 -12.785	1.00 47.82	A
	ATOM	585	O SER	205	21.316	95.547 -13.512	1.00 41.30	A
	ATOM	586	N THR	206	23.151 23.643	95.889 -14.287	1.00 48.13	A
	ATOM	587	H THR	206		95.889 -14.287	1.00 49.52	A
70	MOTA	588	CA THR	206	23.715 25.121	96.351 -12.233	1.00 45.32	Ā
70	MOTA	589	CB THR	206 206	26.115	95.324 -12.316	1.00 47.49	Ā
	MOTA	590	OG1 THR	206	26.050	94.753 -11.545	1.00 47.45	A
	MOTA	591	HG1 THR	206	25.381	97.172 -10.980	1.00 46.12	A
	ATOM	592	CG2 THR	400	23.301	J7.112 10.300	2.00 10.12	

	ATOM	593	С	THR	206	22.792	96.617	-11.383	1.00 49.12	A
	ATOM	594	Ō	THR	206	22.684	96.479	-10.166	1.00 53.03	A
	ATOM	595		GLU	207	22.123		-12.070	1.00 51.42	A
	ATOM	596	H	GLU	207	22.243		-13.042	1.00 0.00	A
5	ATOM	597	CA	GLU	207	21.215		-11.408	1.00 49.16	A
5					207	21.213		-12.269	1.00 52.87	A
	ATOM	598		GLU		21.187		-13.762	1.00 55.52	A
	MOTA	599	CG	GLU	207					A
	ATOM	600		GLU	207	20.886		-14.550	1.00 56.44 1.00 55.48	
10	MOTA	601	OE1		207	21.844		-14.932		A
10	MOTA	602	OE2		207	19.692	101.066		1.00 53.55	A
	ATOM	603	С	GLU	207	19.864		-11.066	1.00 49.23	A
	MOTA	604	0	GLU	207	19.350	98.053	-9.964	1.00 48.23	A
	MOTA	605	N	GLU	208	19.276		-12.000	1.00 47.83	A
	ATOM	606	H	GLU	208	19.710		-12.870	1.00 0.00	A
15	ATOM	607	CA	GLU	208	17.981		-11.727	1.00 48.69	A
	MOTA	608	CB	GLU	208	17.500	95.700	-12.916	1.00 45.35	A
	MOTA	609	CG	GLU	208	17.020	96.510	-14.082	1.00 40.10	A
	ATOM	610	CD	GLU	208	16.724	95.620	-15.262	1.00 37.99	A
	ATOM	611	OE1		208	15.676	95.799	-15.918	1.00 46.28	A
20	ATOM	612	OE2		208	17.545		-15.528	1.00 36.45	A
20	ATOM	613	C	GLU	208	18.129		-10.535	1.00 50.21	A
	ATOM	614	Ö	GLU	208	17.317	95.603	-9.608	1.00 50.81	A
	ATOM	615	N	VAL	209	19.174		-10.573	1.00 47.53	A
	ATOM	616	H	VAL	209	19.778	94.788	-11.344	1.00 0.00	A
25	ATOM	617	CA	VAL	209	19.436	93.832	-9.489	1.00 48.06	A
23				VAL	209	20.744	93.024	-9.738	1.00 48.35	A
	ATOM	618	CB CC1		209	21.363	92.582	-8.421	1.00 49.78	A
	ATOM	619	CG1				91.809	-10.589	1.00 49.88	A
	ATOM	620	CG2		209	20.446		-8.187		A
20	ATOM	621	C	VAL	209	19.549	94.619		1.00 45.25	
30	ATOM	622	0	VAL	209	19.145	94.138	-7.134	1.00 43.45	A
	ATOM	623	N	LEU	210	20.081	95.836	-8.263	1.00 45.57	A
	ATOM	624	H	LEU	210	20.373	96.189	-9.130	1.00 0.00	A
	MOTA	625	$^{\rm CA}$	LEU	210	20.232	96.652	-7.061	1.00 46.10	A
	MOTA	626	CB	LEU	210	21.031	97.931	-7.356	1.00 44.07	A
35	MOTA	627	CG	LEU	210	22.557	97.828	-7.549	1.00 44.26	A
	MOTA	628	CD1	LEU	210	23.131	99.226	-7.738	1.00 38.37	A
	ATOM	629	CD2	LEU	210	23.218	97.138	-6.361	1.00 35.26	A
	MOTA	630	C	LEU	210	18.862	97.006	-6.490	1.00 44.20	A
	ATOM	631	0	LEU	210	18.653	96.925	-5.286	1.00 44.77	A
40	ATOM	632	N	VAL	211	17.928	97.389	-7.349	1.00 45.51	A
	ATOM	633	H	VAL	211	18.137	97.445	-8.305	1.00 0.00	A
	ATOM	634	CA	VAL	211	16.591	97.731	-6.880	1.00 44.84	A
	ATOM	635	СВ	VAL	211	15.685	98.253	-8.021	1.00 44.98	A
	ATOM	636	CG1		211	14.649	99.213	-7.449	1.00 49.23	A
45	ATOM	637	CG2		211	16.517	98.940	-9.095	1.00 47.62	A
	ATOM	638	C	VAL	211	15.914	96.503	-6.278	1.00 42.72	A
	ATOM	639	0	VAL	211	15.219	96.595	-5.262	1.00 42.50	A
	ATOM	640	N	ALA	212	16.122	95.353	-6.907	1.00 40.62	A
	ATOM	641	H	ALA	212	16.699	95.334	-7.699	1.00 0.00	A
50						15.509	94.116	-6.440	1.00 40.77	A
50	MOTA	642	CA	ALA	212	15.742	93.011	-7.454	1.00 36.33	Ā
	MOTA	643	CB	ALA	212		93.672	-5.063	1.00 38.58	A
	ATOM	644	C	ALA	212	16.001			1.00 37.62	
	ATOM	645	0	ALA	212	15.207	93.243	-4.221		A
	MOTA	646	N	ALA	213	17.305	93.779	-4.837	1.00 31.59	A
55	ATOM	647	H	ALA	213	17.889	94.145	-5.532	1.00 0.00	A
	MOTA	648	CA	ALA	213	17.879	93.359	-3.564	1.00 35.24	A
	MOTA	649	CB	ALA	213	19.386	93.229	-3.687	1.00 35.74	A
	MOTA	650	С	ALA	213	17.540	94.277	-2.404	1.00 33.73	A
	MOTA	651	0	ALA	213	17.515	93.837	-1.264	1.00 30.39	A
60	MOTA	652	N	ASN	214	17.277	95.548	-2.688	1.00 37.82	A
	MOTA	653	H	ASN	214	17.292	95.854	-3.618	1.00 0.00	A
	ATOM	654	CA	ASN	214	16.962	96.495	-1.620	1.00 41.93	A
	ATOM	655	CB	ASN	214	17.152	97.935	-2.102	1.00 43.82	A
	ATOM	656	CG	ASN	214	18.495	98.509	-1.688	1.00 45.59	A
65	ATOM	657		ASN	214	19.426	98.581	-2.492	1.00 47.44	A
	ATOM	658		ASN	214	18.606	98.911	-0.425	1.00 46.09	A
	ATOM		HD21		214	17.842	98.829	0.183	1.00 0.00	A
	MOTA		HD21		214	19.465	99.284	-0.143	1.00 0.00	A
		661	C	ASN	214	15.555	96.313	-1.084	1.00 44.23	A
70	ATOM	662	0	ASN	214	15.232	96.808	-0.009	1.00 45.11	A
10	ATOM	663	N	LYS	215	14.724	95.589	-1.830	1.00 44.69	A
	ATOM				215	15.045	95.212	-2.677	1.00 44.03	A
	MOTA	664	H	LYS	215	13.351	95.212	-1.416	1.00 43.68	A
	MOTA	665	CA	LYS	ديب	Tr. C. T	JJ.J=1	1.410	1.00 10.00	11

	ATOM	666	CB	LYS	215	1:	2.425	95.401	-2.632	1.00 45	.74	A
	ATOM	667	CG	LYS	215		2.506	94.172	-3.524	1.00 54		A
	ATOM	668	CD	LYS	215		2.162	94.511	-4.971	1.00 55		A
	ATOM	669	CE	LYS	215		1.845	93.258	-5.776	1.00 59		A
5	ATOM	670	NZ	LYS	215		0.388	92.928	-5.762	1.00 58		A
	ATOM	671		LYS	215		9.850	93.718	-6.173		.00	A
	ATOM	672	HZ2	LYS	215		0.077	92.768	-4.784		.00	A
	ATOM	673	HZ3	LYS	215		0.223	92.068	-6.323		.00	A
	ATOM	674	C	LYS	215		3.184	94.007	-0.701	1.00 41		A
10	ATOM	675	Ö	LYS	215		2.073	93.505	-0.575	1.00 41		A
•	MOTA	676	N	ILE	216		1.280	93.427	-0.227	1.00 38		A
	MOTA	677	H	ILE	216		5.151	93.863	-0.342		.00	A
	MOTA	678	CA	ILE	216		4.197	92.146	0.463	1.00 34		
	ATOM	679	CB	ILE	216		5.477	91.305	0.483	1.00 34		A
15	ATOM	680	CG2	ILE	216		5.367	90.029	1.102			A
13	MOTA	681	CG2	ILE	216		5.694	90.029	-1.102	1.00 30		A
	ATOM	682	CD1	ILE	216		7.084		-1.192 -1.481	1.00 29		A
	ATOM	683	CDI	ILE	216		3.987	90.443	1.952	1.00 27		A
	ATOM	684	0	ILE	216		1.823	92.918	2.637	1.00 31		A
20	ATOM	685		GLY	217		2.874	91.824		1.00 31		A
20	ATOM	686	N H	GLY	217		2.242	91.354	2.458	1.00 33		A
	ATOM	687	CA	GLY	217		2.595	91.354	1.875		.00	A
	ATOM	688	CA	GLY	217		3.014	90.749	3.872 4.680	1.00 36 1.00 38		A
	MOTA	689	0	GLY	217		3.112	89.642	4.141	1.00 38		A A
25	ATOM	690	N	ARG	218		3.269	90.965	5.968	1.00 38		
23	ATOM	691	H	ARG	218		3.193	91.876	6.318		.00	A A
	ATOM	692	CA	ARG	218		3.667	89.895	6.884		.94	
	ATOM	693	CB	ARG	218		3.990	90.473	8.267	1.00 38		A
	ATOM	694	CG	ARG	218		1.512	89.462	9.295			A
30	ATOM	695	CD	ARG	218		5.880	89.885	9.293	1.00 40		A
50	ATOM	696	NE	ARG	218		5.011	89.820	11.283	1.00 43 1.00 35	.18	A
	ATOM	697	HE	ARG	218		5.023	88.935	11.701			A
	ATOM	698	CZ	ARG	218		5.126	90.882	12.073		.00 .87	A
	ATOM	699		ARG	218		5.126	92.114	11.573	1.00 36		A A
35	ATOM		HH11		218		5.055	92.253	10.583			
33	ATOM		HH12		218		5.212	92.233	12.181		.00	A
	ATOM	702		ARG	218		5.263	90.706	13.374			A
	ATOM		HH21		218		5.287	89.785	13.753	1.00 41 1.00 0	.00	A
	ATOM		HH22	ARG	218		5.345	91.499	13.753		.00	A
40	ATOM	705	C	ARG	218		2.546	88.873	7.006	1.00 0		A
40	ATOM	706	0	ARG	218		L.488	89.167	7.556	1.00 33		A
	ATOM	707	N	GLN	219		2.788	87.667	6.504	1.00 43		A A
	ATOM	708	H	GLN	219		3.661	87.489	6.097		.00	A
	ATOM	709	CA	GLN	219		L.792	86.602	6.541	1.00 38		A
45	ATOM	710	CB	GLN	219		2.265	85.411	5.694	1.00 33		A
1.5	ATOM	711	CG	GLN	219		2.960	84.295	6.452	1.00 33		A
	ATOM	712	CD	GLN	219		2.950	82.995	5.682	1.00 32		A
	ATOM	713		GLN	219		2.946	82.990	4.449	1.00 33		A
	ATOM	714			219		2.938	81.883	6.402	1.00 39		A
50	ATOM		HE21		219		2.936	81.933	7.380		.00	A
-	ATOM			GLN	219		2.931	81.032	5.917		.00	Ā
	ATOM	717	C	GLN	219		1.465	86.161	7.961	1.00 41		A
	MOTA	718	Ö	GLN	219		317	85.831	8.269	1.00 40		A
	MOTA	719	N	GLY	220		2.470	86.161	8.828	1.00 40		A
55	MOTA	720	H	GLY	220		3.369	86.424	8.536		.00	A
	ATOM	721	CA	GLY	220		2.241	85.771	10.206	1.00 40		A
	ATOM	722	C	GLY	220		2.464	84.299	10.470	1.00 41		A
	ATOM	723	O	GLY	220		2.137	83.447	9.650	1.00 37		A
	ATOM	724	N	GLY	221		3.022	84.001	11.634	1.00 44		Ā
60	MOTA	725	Н	GLY	221		3.258	84.716	12.260		.00	A
	ATOM	726	CA	GLY	221		3.282	82.623	11.987	1.00 43		A
	ATOM	727	C	GLY	221		3.912	82.468	13.354	1.00 43		A
	MOTA	728	Õ	GLY	221		1.805	83.221	13.742	1.00 40		Ā
	ATOM	729	N	LEU	222		3.416	81.477	14.085	1.00 45		A
65	ATOM	730	H	LEU	222		2.691	80.940	13.711		.00	A
~~	ATOM	731	CA	LEU	222		3.903	81.151	15.411	1.00 47		A
	ATOM	732	CB	LEU	222		2.781	80.471	16.207	1.00 47		A
	ATOM	732	CG	LEU	222		395	80.687	15.579	0.01 54		A
	ATOM	734		LEU	222).343	79.881	16.311	0.01 54		A
70	ATOM	735		LEU	222		048	82.171	15.608	0.01 55		A A
, 0	MOTA	736	C	LEU	222		.066	80.194	15.172	1.00 47		A
	ATOM	737	0	LEU	222		5.135	80.340	15.757	1.00 47		A
	ATOM	738	N	GLN	223		1.837	79.233	14.279	1.00 47		A
		. 3 0					/		/	±.00 ±2		7

	MOTA	739	H	GLN	223	13.955	79.189	13.857	1.00 0.00	A
	ATOM	740	CA	GLN	223	15.837	78.241	13.903	1.00 40.39	A
	MOTA	741	CB	GLN	223	15.159	76.915	13.533	1.00 38.83	A
_	MOTA	742	CG	GLN	223	14.256	76.346	14.617	0.01 40.23	A
5	MOTA	743	CD	GLN	223	13.344	75.250	14.099	0.01 40.15	A
	ATOM	744		GLN	223	13.163	74.219	14.747	0.01 39.83	A
	ATOM	745	NE2	GLN	223	12.765	75.470	12.924	0.01 39.93	A
	ATOM		HE21		223	12.935	76.302	12.443	1.00 0.00	A
10	ATOM ATOM	747 748	HE22 C	GLN GLN	223 223	12.171 16.666	74.771 78.746	12.577 12.713	1.00 0.00 1.00 40.39	A
10	ATOM	749	0	GLN	223	16.144	79.404	11.804	1.00 40.39	A A
	ATOM	750	N	THR	224	17.954	78.413	12.722	1.00 38.90	A
	ATOM	751	H	THR	224	18.293	77.864	13.458	1.00 0.00	A
	ATOM	752	CA	THR	224	18.885	78.836	11.675	1.00 29.74	A
15	ATOM	753	CB	THR	224	20.006	79.688	12.333	1.00 28.84	A
	ATOM	754		THR	224	19.462	80.968	12.668	1.00 31.13	A
	MOTA	755	HG1	THR	224	19.146	81.401	11.872	1.00 0.00	A
	MOTA	756	CG2	THR	224	21.205	79.867	11.415	1.00 24.03	A
	MOTA	757	C	THR	224	19.450	77.608	10.940	1.00 25.16	A
20	ATOM	758	0	THR	224	20.438	77.013	11.366	1.00 21.68	A
	MOTA	759	N	MET	225	18.809	77.231	9.837	1.00 23.33	A
	ATOM	760	H	MET	225	18.044	77.757	9.525	1.00 0.00	A
	ATOM	761	CA	MET	225	19.219	76.051	9.082	1.00 25.92	A
25	ATOM ATOM	762 763	CB CG	MET MET	225 225	17.979	75.377 75.275	8.504 9.495	1.00 26.36 1.00 24.17	A
23	ATOM	764	SD	MET	225	16.851 17.187	73.275	10.572	1.00 24.17	A A
	ATOM	765	CE	MET	225	16.928	72.552	9.456	1.00 33.11	A
	ATOM	766	C	MET	225	20.205	76.326	7.958	1.00 26.44	A
	ATOM	767	ō	MET	225	19.850	76.238	6.785	1.00 27.44	A
30	MOTA	768	N	THR	226	21.446	76.640	8.303	1.00 27.96	A
	MOTA	769	H	THR	226	21.699	76.679	9.248	1.00 0.00	A
	MOTA	770	CA	THR	226	22.433	76.930	7.268	1.00 26.56	A
	MOTA	771	CB	THR	226	23.761	77.426	7.879	1.00 28.59	A
25	ATOM	772	OG1	THR	226	23.478	78.382	8.904	1.00 29.78	A
35	ATOM	773	HG1	THR	226	24.301	78.693	9.288	1.00 0.00	A
	ATOM ATOM	774 775	CG2 C	THR THR	226 226	24.622 22.709	78.102 75.740	6.807 6.347	1.00 25.78	A
	ATOM	776	0	THR	226	22.709	75.922	5.152	1.00 24.98 1.00 20.19	A A
	ATOM	777	N	ALA	227	22.709	74.525	6.889	1.00 25.81	A
40	ATOM	778	H	ALA	227	22.547	74.412	7.848	1.00 0.00	A
	ATOM	779	CA	ALA	227	22.953	73.357	6.047	1.00 23.49	A
	MOTA	780	CB	ALA	227	22.972	72.077	6.876	1.00 23.86	A
	ATOM	781	C	ALA	227	21.851	73.301	4.999	1.00 25.42	A
. ~	MOTA	782	0	ALA	227	22.120	73.101	3.815	1.00 26.01	A
45	ATOM	783	N	LEU	228	20.614	73.503	5.436	1.00 24.83	A
	MOTA	784	H	LEU	228	20.464	73.658 73.499	6.393	1.00 0.00	A
	ATOM ATOM	785 786	CA CB	LEU LEU	228 228	19.470 18.167	73.499	4.527 5.305	1.00 25.07 1.00 22.51	A
	ATOM	787	CG	LEU	228	16.898	73.513		1.00 22.31	A A
50	MOTA	788	CD1		228	16.775	72.087	3.969	1.00 34.21	A
	ATOM	789	CD2		228	15.667	73.911	5.256	1.00 31.46	A
	ATOM	790	С	LEU	228	19.547	74.603	3.464	1.00 23.01	A
	MOTA	791	0	LEU	228	19.219	74.373	2.300	1.00 26.47	A
	MOTA	792	N	GLY	229	19.960	75.803	3.858	1.00 20.11	A
55	ATOM	793	H	GLY	229	20.204	75.955	4.796	1.00 0.00	A
	MOTA	794	CA	GLY	229	20.050	76.890	2.897	1.00 22.39	A
	ATOM	795	C	GLY	229	21.123	76.627	1.852	1.00 25.88	A
	MOTA	796 797	O	GLY	229 230	20.865	76.706 76.313	0.658	1.00 25.69 1.00 23.82	A
60	ATOM ATOM	798	N H	THR THR	230	22.337 22.491	76.274	2.305 3.271	1.00 23.82	A A
00	MOTA	799	CA	THR	230	23.441	76.032	1.393	1.00 25.70	A A
	ATOM	800	CB	THR	230	24.729	75.710	2.182	1.00 25.52	A
	ATOM	801	OG1		230	25.233	76.918	2.768	1.00 27.54	A
	MOTA	802	HG1	THR	230	26.034	76.726	3.261	1.00 0.00	A
65	ATOM	803	CG2	THR	230	25.794	75.102	1.266	1.00 18.19	A
	MOTA	804	С	THR	230	23.148	74.879	0.424	1.00 26.69	A
	ATOM	805	0	THR	230	23.467	74.964	-0.771	1.00 24.80	A
	ATOM	806	N	ASP	231	22.525	73.820	0.938	1.00 25.10	A
70	MOTA	807	H	ASP	231	22.272	73.835	1.884	1.00 0.00	A
70	ATOM ATOM	808 809	CA CB	ASP ASP	231 231	22.203	72.630 71.504	0.137	1.00 22.95	A
	ATOM	810	CB	ASP	231	21.702 21.903	70.115	1.050 0.444	1.00 14.71 1.00 26.88	A A
	ATOM	811	OD1		231	22.234	70.113	-0.755	1.00 25.70	A
							_	•		

	MOTA	812	OD2 ASP	231	21.722	69.124	1.183	1.00 32.43	A
	MOTA	813	C ASP	231	21.149	72.943	-0.900	1.00 25.92	A
	ATOM	814	O ASP	231	21.167	72.412	-2.019	1.00 22.17	A
	ATOM	815	N THR	232	20.216	73.803	-0.513	1.00 30.41	A
5	MOTA	816	H THR	232	20.257	74.169	0.395	1.00 0.00	A
	ATOM	817	CA THR	232	19.138	74.216	-1.391	1.00 27.31	A
	MOTA	818	CB THR	232	18.059	74.977	-0.578	1.00 31.03	A
	ATOM	819	OG1 THR	232	17.404	74.051	0.299	1.00 30.78	A
	ATOM	820	HG1 THR	232	16.732	74.513	0.807	1.00 0.00	A
10	ATOM	821	CG2 THR	232	17.023	75.618	-1.497	1.00 22.38	A
	ATOM	822	C THR	232	19.716	75.095	-2.502	1.00 27.81	A
	ATOM	823	O THR	232	19.325	74.978	-3.659	1.00 27.44	A
	ATOM	824	N ALA	233	20.676	75.946	-2.148	1.00 27.86	A
	ATOM	825	H ALA	233	20.957	75.979	-1.210	1.00 0.00	A
15	ATOM	826	CA ALA	233	21.321	76.830	-3.112	1.00 31.80	A
	ATOM	827	CB ALA	233	22,162	77.876	-2.381	1.00 27.63	A
	ATOM	828	C ALA	233	22.195	76.042	-4.095	1.00 35.25	A
	ATOM	829	O ALA	233	22.341	76.431	-5.255	1.00 37.14	A
	ATOM	830	N ALA	234	22.776	74.940	-3.632	1.00 35.16	A
20	ATOM	831	H ALA	234	22.638	74.681	-2.696	1.00 0.00	A
20	ATOM	832	CA ALA	234	23.613	74.111	-4.486	1.00 37.73	A
	ATOM	833	CB ALA	234	24.552	73.271	-3.651	1.00 37.73	A
	ATOM	834	C ALA	234	22.712	73.205	-5.293	1.00 40.15	A
	ATOM	835	O ALA	234	23.045	72.806	-6.407	1.00 40.13	A
25		836				72.897			
23	MOTA			235	21.556	73.275	-4.719	1.00 38.44 1.00 0.00	A
	ATOM	837	H LYS	235	21.342		-3.841		A
	ATOM	838	CA LYS	235	20.601	72.013	-5.361	1.00 37.80	A
	ATOM	839	CB LYS	235	19.826	71.223	-4.299	1.00 39.04	A
20	ATOM	840	CG LYS	235	20.401	69.856	-3.977	1.00 40.19	A
30	ATOM	841	CD LYS	235	19.542	69.129	-2.957	1.00 40.24	A
	ATOM	842	CE LYS	235	19.458	67.642	-3.268	1.00 40.62	A
	ATOM	843	NZ LYS	235	18.951	66.862	-2.102	1.00 39.60	A
	ATOM	844	HZ1 LYS	235	17.999	67.200	-1.848	1.00 0.00	A
25	ATOM	845	HZ2 LYS	235	19.591	66.994	-1.293	1.00 0.00	A
35	ATOM	846	HZ3 LYS	235	18.907	65.855	-2.351	1.00 0.00	A
	ATOM	847	C LYS	235	19.605	72.732	-6.253	1.00 37.03	A
	ATOM	848	O LYS	235	19.199	72.193	-7.282	1.00 37.66	A
	ATOM	849	N GLU	236	19.217	73.947	-5.873	1.00 36.11	A
40	ATOM	850	H GLU	236	19.615	74.355	-5.080	1.00 0.00	A
40	MOTA	851	CA GLU	236	18.210	74.677	-6.640	1.00 39.41	A
	ATOM	852	CB GLU	236	17.025	75.022	-5.736	1.00 40.91	A
	ATOM	853	CG GLU	236	16.053	73.874	-5.542	1.00 47.24	A
	MOTA	854	CD GLU	236	15.185	74.050	-4.312	1.00 50.19	A
1.5	ATOM	855	OE1 GLU	236	14.414	75.033	-4.259	1.00 51.54	A
45	MOTA	856	OE2 GLU	236	15.274	73.203	-3.399	1.00 49.31	A
	ATOM	857	C GLU	236	18.650	75.934	-7.361	1.00 37.57	A
	MOTA	858	O GLU	236	18.484	76.043	-8.574	1.00 39.16	A
	ATOM	859	N ALA	237	19.182	76.893	-6.611	1.00 36.70	A
	ATOM	860	H ALA	237	19.280	76.749	-5.646	1.00 0.00	A
50	ATOM	861	CA ALA	237	19.622	78.153	-7.197	1.00 33.79	A
	ATOM	862	CB ALA	237	20.292	79.031	-6.125	1.00 22.28	A
	ATOM	863	C ALA	237	20.586	77.906	-8.357	1.00 31.23	A
	ATOM	864	O ALA	237	20.550	78.610	-9.363	1.00 29.31	A
	ATOM	865	N PHE	238	21.433	76.889	-8.208	1.00 33.83	A
55	ATOM	866	H PHE	238	21.384	76.354	-7.391	1.00 0.00	A
	MOTA	867	CA PHE	238	22.428	76.545	-9.220	1.00 33.21	Α
	ATOM	868	CB PHE	238	23.691	75.985	-8.558	1.00 33.12	A
	ATOM	869	CG PHE	238	24.552	77.026	-7.908	1.00 33.07	A
	ATOM	870	CD1 PHE	238	25.030	76.834	-6.616	1.00 32.77	A
60	MOTA	871	CD2 PHE	238	24.882	78.195	-8.580	1.00 29.14	A
	ATOM	872	CE1 PHE	238	25.821	77.792	-5.999	1.00 29.30	A
	ATOM	873	CE2 PHE	238	25.672	79.158	-7.976	1.00 36.10	A
	MOTA	874	CZ PHE	238	26.146	78.957	-6.676	1.00 37.20	A
	ATOM	875	C PHE	238	21.934		-10.233	1.00 35.57	A
65	ATOM	876	O PHE	238	22.487		-10.347	1.00 34.78	A
	MOTA	877	N THR	239	20.894		-10.971	1.00 41.07	A
	ATOM	878	H THR	239	20.472		-10.834	1.00 0.00	A
	ATOM	879	CA THR	239	20.370		-11.984	1.00 46.32	A
	ATOM	880	CB THR	239	19.073		-11.508	1.00 46.28	A
70	ATOM	881	OG1 THR	239	18.000		-11.474	1.00 46.22	A
, ,	ATOM	882	HG1 THR	239	17.861		-12.353	1.00 40.22	A
	ATOM	883	CG2 THR	239	19.272		-10.116	1.00 51.02	A
	ATOM	884	C THR	239	20.107		-13.248	1.00 45.38	A
	221 011	004	C IIII	499	20.101	, 5. , 60	10.440	T.00 ZJ.J0	A

	ATOM	885	O TH	IR 239	19.735	76.951 -13.1	.85 1.00 46.02	A
	ATOM	886	N GI			75.152 -14.3		A
	ATOM	887	H GI		20.614	74.216 -14.3		A
_	ATOM	888	CA GI			75.825 -15.6		A
5	ATOM	889	CB GI			74.833 -16.8		A
	MOTA	890	CG GI		21.543	73.981 -16.7 74.606 -17.3		A
	ATOM ATOM	891 892	CD GI OE1 GI		22.735 23.662	75.079 -16.7		A A
	ATOM	893	OE2 GI		22.741	74.625 -18.6		A
10	ATOM	894	C GI		18.737	76.427 -15.6		A
10	ATOM	895	O GI		18.482	77.397 -16.3		A
	ATOM	896	N AI		17.848	75.844 -14.8		A
	ATOM	897	H AI			75.082 -14.3		A
	MOTA	898	CA AI		16.468	76.299 -14.8		A
15	ATOM	899	CB AI			75.237 -14.1		A
	ATOM	900	C AI	A 241	16.376	77.600 -14.0	36 1.00 49.38	A
	MOTA	901	O AI	A 241	15.542	78.453 -14.3	36 1.00 52.67	A
	MOTA	902	N AF	G 242	17.238	77.748 -13.0		A
••	MOTA	903	H AF			77.041 -12.8		A
20	MOTA	904	CA AF		17.226	78.944 -12.2		A
	MOTA	905	CB AF		17.408	78.562 -10.7		A
	ATOM	906	CG AF		16.493	77.376 -10.3		A
	ATOM	907	CD AF		15.817	77.532 -8.9		A
25	MOTA MOTA	908 909	NE AF HE AF		14.782 14.958	78.570 -8.8 79.399 -9.3		A A
23	ATOM	910	CZ AF		13.635	78.491 -8.1		A A
	ATOM	911	NH1 AF			77.413 -7.4		A
	ATOM		HH11 AF		13.952	76.653 -7.4		A
	ATOM		HH12 AF			77.383 -6.9		A
30	ATOM	914	NH2 AF		12.807	79.524 -8.2		A
	ATOM	915	HH21 AF		13.057	80.361 -8.6		A
	ATOM	916	HH22 AF	G 242	11.938	79.475 -7.7	09 1.00 0.00	A
	ATOM	917	C AF	G 242	18.277	79.944 -12.6	81 1.00 46.22	A
~	MOTA	918	O AF		18.564	80.913 -11.9		A
35	MOTA	919	N GI		18.850	79.704 -13.8		A
	MOTA	920	H GI		18.612	78.899 -14.3		A
	ATOM	921	CA GI		19.832	80.634 -14.3		A
	ATOM ATOM	922 923	C GI		21.289	80.231 -14.5		A
40	ATOM	924	O GI N AI		21.993 21.750	80.797 -15.3 79.276 -13.7		A A
70	ATOM	925	H AI		21.730	78.857 -13.0		A
	ATOM	926	CA AI		23.144	78.838 -13.7		A
	ATOM	927	CB AI		23.315	77.543 -13.0		A
	ATOM	928	C AI		23.635	78.656 -15.2		A
45	ATOM	929	O AI	A 244	22.941	78.070 -16.0		A
	MOTA	930	N AF	G 245	24.833	79.159 -15.5	05 1.00 35.79	A
	MOTA	931	H AF		25.344	79.603 -14.8		A
	ATOM	932	CA AF		25.406	79.057 -16.8		A
50	ATOM	933	CB AF			80.375 -17.2		A
50	MOTA	934	CG AF		25.170	81.597 -17.1		A
	ATOM ATOM	935	CD AF		25.919	82.937 -17.2 83.246 -16.0		A
	ATOM	936 937	NE AF HE AF			82.731 -15.2		A A
	ATOM	938	CZ AF		27.636	84.192 -16.0		A
55	ATOM	939	NH1 AF		27.911	84.933 -17.0		A
	ATOM		HH11 AF			84.791 -17.9		A
	ATOM		HH12 AF		28.616	85.640 -17.0		A
	ATOM	942	NH2 AF		28.304	84.397 -14.8		A
	ATOM	943	HH21 AF		28.098	83.847 -14.0		A
60	MOTA	944	HH22 AF	G 245	29.009	85.102 -14.8	347 1.00 0.00	A
	MOTA	945	C AF	G 245	26.366	77.868 -16.9	37 1.00 37.43	A
	MOTA	946	O AF		27.190	77.640 -16.0		A
	ATOM	947	N AF		26.243	77.120 -18.0		A
65	MOTA	948	H AF			77.378 -18.7		A
65	MOTA	949	CA AF			75.931 -18.2		A
	ATOM	950 951	CB AF			75.351 -19.6		A
	ATOM	951 952	CG AF			74.674 -19.7		A
	ATOM ATOM	952 953	CD AF			73.599 -20.8 72.756 -20.6		A
70	ATOM	954	HE AF		24.144 23.939	72.756 -20.6		A A
, ,	ATOM	955	CZ AF			72.373 -19.6		A
	ATOM	956	NH1 AF			71.694 -21.4		A
	MOTA		HH11 AF		22.087	71.323 -20.5		A

	ATOM	958	HH12 A	RG 246	21.650	71.482	-22.252	1.00 0.00	A
	ATOM	959	NH2 A	RG 246	23.561		-22.908	1.00 76.75	A
	MOTA	960	HH21 A	RG 246	24.357	73.550	-23.064	1.00 0.00	A
	MOTA	961	HH22 AI	RG 246	22.943	72.750	-23.664	1.00 0.00	A
5	MOTA	962	C AI	RG 246	28.557	76.143	-18.200	1.00 37.90	A
	MOTA	963	O AI	RG 246	29.149	76.779	-19.074	1.00 41.30	A
	MOTA	964	N GI	LY 247	29.172	75.602	-17.157	1.00 30.93	A
	MOTA	965	H G1	LY 247	28.658	75.119	-16.478	1.00 0.00	A
	ATOM	966	CA GI	LY 247	30.610	75.728	-17.019	1.00 33.39	A
10	ATOM	967	C GI	LY 247	31.104	77.062	-16.515	1.00 34.40	A
	MOTA	968	O GI	LY 247	32.280	77.394	-16.648	1.00 37.30	A
	ATOM	969	N V	AL 248	30.206		-15.947	1.00 37.33	A
	ATOM	970	H V	AL 248	29.266	77.576	-15.906	1.00 0.00	A
	ATOM	971	CA V	AL 248	30.617		-15.390	1.00 33.83	A
15	ATOM	972	CB V	AL 248	29.506	80.168	-15.526	1.00 29.27	A
	ATOM	973	CG1 V	AL 248	29.660		-14.471	1.00 27.00	A
	MOTA	974	CG2 V	AL 248	29.559		-16.916	1.00 18.63	A
	ATOM	975		AL 248	30.905		-13.926	1.00 38.78	A
	ATOM	976		AL 248	30.175		-13.296	1.00 44.51	A
20	MOTA	977		ZS 249	31.985		-13.397	1.00 37.56	A
	ATOM	978		rs 249	32.536		-13.946	1.00 0.00	A
	MOTA	979		rs 249	32.362		-12.012	1.00 39.22	A
	MOTA	980		ZS 249	33.644		-11.660	1.00 42.55	Α
25	ATOM	981		rs 249	34.192		-10.262	1.00 49.76	A
25	ATOM	982		ZS 249	34.281	78.082	-9.992	1.00 50.58	A
	ATOM	983		rs 249	34.354	77.781	-8.498	1.00 53.51	A
	ATOM	984		rs 249	35.759	77.621	-8.011	1.00 56.75	A
	ATOM	985	HZ1 LY		36.289	78.498	-8.188	1.00 0.00	A
20	ATOM	986	HZ2 LY		36.213	76.834	-8.518	1.00 0.00	A
30	ATOM	987	HZ3 LY		35.752	77.418	-6.992	1.00 0.00	A
	ATOM	988		7S 249	31.250 30.689		-11.045 -11.120	1.00 37.78 1.00 39.09	A
	ATOM	989		7S 249 7S 250	30.689		-11.120 -10.140	1.00 39.09	A A
	ATOM ATOM	990			31.418		-10.140 -10.132	1.00 34.03	A
35	ATOM	991 992		7S 250 7S 250	29.888	78.833	-9.161	1.00 0.00	A
33	ATOM	993		rs 250	29.116	77.537	-8.890	1.00 33.73	A
	ATOM	994		rs 250	28.185		-10.006	1.00 32.33	A
	ATOM	995		rs 250	28.424		-10.376	1.00 30.32	A
	ATOM	996		rs 250	27.324	74.777	-9.831	1.00 33.72	A
40	ATOM	997		rs 250	26.219		-10.810	1.00 37.02	A
10	ATOM	998	HZ1 L		26.577		-11.692	1.00 0.00	A
	ATOM	999	HZ2 LY		25.828		-11.003	1.00 0.00	A
	ATOM	1000	HZ3 LY		25.471		-10.418	1.00 0.00	A
	ATOM	1001		7S 250	30.499	79.326	-7.864	1.00 32.94	A
45	MOTA	1002		rs 250	31.433	78.718	-7.341	1.00 31.11	A
-	MOTA	1003		AL 251	29.981	80.441	-7.360	1.00 28.36	A
,	ATOM	1004		AL 251		80.901	-7.843	1.00 0.00	A
	ATOM	1005		AL 251	30.461	80.987	-6.105	1.00 29.32	A
	MOTA	1006	CB V	AL 251	31.228		-6.310	1.00 33.68	A
50	MOTA	1007	CG1 V			82.882	-4.965	1.00 30.93	A
	ATOM	1008	CG2 V	AL 251	32.478	82.030	-7.137	1.00 35.10	A
	MOTA	1009	C V	AL 251	29.308	81.236	-5.142	1.00 27.80	A
	MOTA	1010	0 V2	AL 251	28.229	81.672	-5.534	1.00 23.98	A
	ATOM	1011	N MI	ET 252	29.557	80.955	-3.874	1.00 27.02	A
55	MOTA	1012	H MI	ET 252	30.442	80.618	-3.628	1.00 0.00	A
	MOTA	1013	CA MI	ET 252	28.562	81.134	-2.841	1.00 29.16	A
	ATOM	1014	CB M	ET 252	28.251	79.779	-2.192	1.00 31.45	A
	MOTA	1015	CG MI	ET 252	26.775	79.497	-1.946	1.00 32.24	A
	MOTA	1016	SD M	ET 252	26.458	77.877	-1.174	1.00 36.40	A
60	MOTA	1017	CE M	ET 252	26.088	76.900	-2.663	1.00 27.09	A
	ATOM	1018	C MI	ET 252	29.057	82.114	-1.779	1.00 27.61	A
	MOTA	1019	O MI	ET 252	30.215	82.067	-1.363	1.00 32.25	A
	MOTA	1020	N V	AL 253	28.183	83.028	-1.376	1.00 27.62	A
	ATOM	1021		AL 253	27.302	83.065	-1.801	1.00 0.00	А
65	ATOM	1022		AL 253	28.509	83.981	-0.320	1.00 29.51	A
	MOTA	1023		AL 253	28.518	85.459	-0.821	1.00 26.29	A
	ATOM	1024	CG1 V			86.368	0.305	1.00 28.02	A
	ATOM	1025	CG2 V		29.446	85.625	-2.024	1.00 23.28	A
- -	ATOM	1026		AL 253	27.414	83.825	0.754	1.00 28.07	A
70	ATOM	1027		AL 253	26.301	84.333	0.598	1.00 25.71	A
	ATOM	1028		LE 254		83.107	1.828	1.00 29.62	A
	ATOM	1029		LE 254		82.721	1.881	1.00 0.00	A
	ATOM	1030	CA II	LE 254	26.808	82.874	2.931	1.00 25.76	A

	ATOM	1031	CB II	E 254	26.933	81.416	3.476	1.00 26.55	А
	ATOM	1032	CG2 II	E 254	25.851	81.144	4.512	1.00 23.36	A
	ATOM	1033	CG1 II	E 254	26.764	80.415	2.330	1.00 23.69	A
	ATOM	1034	CD1 II	E 254	28.047	79.781	1.869	1.00 23.22	A
5	MOTA	1035	C II		27.076	83.879	4.053	1.00 23.27	A
	ATOM	1036	0 11		28.222	84.121	4.418	1.00 26.33	А
	ATOM	1037	N VA		26.000	84.452	4.590	1.00 19.71	A
	ATOM	1038	H VA		25.120	84.171	4.270	1.00 0.00	A
10	MOTA	1039	CA VA		26.059	85.474	5.631	1.00 18.36	A
10	ATOM	1040	CB VA		25.492	86.818	5.063	1.00 19.62	A
	ATOM	1041	CG1 VA		25.599	87.923	6.080	1.00 17.22	A
	ATOM	1042	CG2 VA		26.254	87.209	3.790	1.00 20.74	A
	ATOM ATOM	1043 1044	C VA		25.220 24.035	84.990 84.701	6.812 6.649	1.00 16.43	A
15	ATOM	1044	N TH		25.826	84.875	7.990	1.00 19.58 1.00 15.49	A A
15	MOTA	1046	H TH		26.770	85.121	8.082	1.00 13.49	A
	ATOM	1047	CA TH		25.084	84.390	9.142	1.00 14.90	A
	ATOM	1048	CB TH		25.113	82.858	9.212	1.00 14.75	A
	ATOM	1049	OG1 TH		24.240	82.400	10.253	1.00 13.11	A
20	MOTA	1050	HG1 TH		24.525	82.758	11.096	1.00 0.00	A
	ATOM	1051	CG2 TH	R 256	26.526	82.378	9.476	1.00 12.09	A
	MOTA	1052	C TH	R 256	25.501	84.938	10.494	1.00 20.05	A
	MOTA	1053	O TH		26.661	85.291	10.724	1.00 16.01	A
	MOTA	1054	N AS		24.512	84.930	11.385	1.00 21.65	A
25	ATOM	1055	H AS		23.664	84.542	11.090	1.00 0.00	A
	ATOM	1056	CA AS		24.557	85.440	12.757	1.00 24.04	A
	ATOM	1057	CB AS		23.199	86.096	13.031	1.00 29.68	A
	MOTA	1058	CG AS		23.297	87.308	13.891	1.00 38.27	A
30	ATOM ATOM	1059 1060	OD1 AS		24.426	87.791	14.137	1.00 52.10	A
30	ATOM	1061	OD2 AS		22.228 24.831	87.780 84.444	14.321 13.904	1.00 36.38 1.00 16.57	A A
	ATOM	1062	O AS		25.087	84.859	15.036	1.00 15.92	A
	ATOM	1063	N GI		24.731	83.150	13.643	1.00 12.93	A
	ATOM	1064	H GI		24.516	82.837	12.744	1.00 0.00	A
35	MOTA	1065	CA GI		24.950	82.198	14.721	1.00 16.21	A
	ATOM	1066	C GI	Y 258	25.155	80.786	14.229	1.00 21.42	A
	MOTA	1067	O GI	Y 258	25.226	80.552	13.026	1.00 16.78	A
	ATOM	1068	N GI		25.254	79.845	15.167	1.00 21.61	A
40	ATOM	1069	H GL		25.190	80.105	16.110	1.00 0.00	A
40	ATOM	1070	CA GI		25.450	78.442	14.832	1.00 22.54	A
	ATOM	1071	CB GI		25.801	77.649	16.093	1.00 27.50	A
	ATOM	1072	CG GI CD GI		26.886 27.536	78.305	16.911	1.00 38.06	A
	ATOM ATOM	1073 1074	CD GI OE1 GI		28.417	77.361 76.578	17.891 17.468	1.00 39.46 1.00 44.28	A
45	ATOM	1075	OE2 GI		27.167	77.410	19.083	1.00 44.28	A A
	ATOM	1076	C GI		24.196	77.875	14.187	1.00 19.71	A
	ATOM	1077	O GL		23.093	78.316	14.468	1.00 16.96	A
	ATOM	1078	N SE		24.357	76.886	13.324	1.00 21.81	A
	ATOM	1079	H SE	R 260	25.252	76.526	13.145	1.00 0.00	A
50	MOTA	1080	CA SE		23.197	76.337	12.649	1.00 24.30	A
	MOTA	1081	CB SE		23.585	75.761	11.287	1.00 26.30	A
	ATOM	1082	OG SE		24.643	74.827	11.404	1.00 27.86	A
	ATOM	1083	HG SE		25.412	75.260	11.780	1.00 0.00	A
55	MOTA	1084	C SE		22.492	75.279	13.456	1.00 24.11	A
33	MOTA	1085	O SE		23.123	74.488	14.150	1.00 19.93	A
	ATOM ATOM	1086 1087	N HI H HI		21.166 20.726	75.303 76.006	13.384 12.864	1.00 30.37 1.00 0.00	A
	ATOM	1088	CA HI		20.352	74.308	14.062	1.00 0.00 1.00 35.00	A A
	ATOM	1089	CB HI		18.862	74.616	13.876	1.00 33.00	A
60	ATOM	1090	CG HI		18.263	75.417	14.994	1.00 40.87	A
	ATOM	1091	CD2 HI		17.159	75.203	15.749	1.00 38.31	A
	ATOM	1092	ND1 HI		18.809	76.600	15.444	1.00 42.06	A
	ATOM	1093	HD1 HI	S 261	19.620	77.019	15.088	1.00 0.00	A
	MOTA	1094	CE1 HI	s 261	18.071	77.080	16.425	1.00 41.84	A
65	MOTA	1095	NE2 HI		17.062	76.251	16.631	1.00 38.37	Α
	MOTA	1096	HE2 HI		16.358	76.361	17.297	1.00 0.00	A
	ATOM	1097	C HI		20.715	73.032	13.316	1.00 36.08	A
	MOTA	1098	O HI		20.886	71.969	13.915	1.00 32.42	A
70	ATOM	1099	N TY		20.857	73.173	11.997	1.00 39.63	A
70	ATOM ATOM	$\frac{1100}{1101}$	H TY CA TY		20.705 21.224	74.056 72.069	11.602 11.122	1.00 0.00 1.00 45.92	A
	ATOM	1101	CA TY CB TY		20.783	72.069	9.689	1.00 45.92	A A
	MOTA	1102	CG TY		19.879	72.372	9.137	1.00 52.25	A
	111 011	±±00	CO 11		19.019	11.010	J. 13/	1.00 02.13	A

	ATOM	1104	CD1	TYR	262	19.511	71.302	7.792	1.00 67.63	A
	MOTA	1105	CE1	TYR	262	18.676	70.297	7.280	1.00 69.78	A
	ATOM	1106	CD2	TYR	262	19.398	70.290	9.960	1.00 66.65	A
_	MOTA	1107	CE2	TYR	262	18.569	69.285	9.465	1.00 69.62	A
5	MOTA	1108	CZ	TYR	262	18.213	69.290	8.125	1.00 71.57	A
	ATOM	1109	OH	TYR	262	17.408	68.282	7.637	1.00 70.23	A
	MOTA	1110	HH	TYR	262	17.185	67.678	8.350	1.00 0.00	A
	ATOM	1111	C	TYR	262	22.728	71.793	11.152	1.00 45.91	A
10	ATOM	1112	O	TYR	262	23.270	71.219	10.215	1.00 45.20	A
10	ATOM ATOM	1113 1114	N	ASN ASN	263 263	23.377 22.849	72.230 72.702	12.233 12.906	1.00 47.51	A
	ATOM	1115	H CA	ASN	263	24.817	72.702	12.500	1.00 0.00 1.00 47.67	A
	ATOM	1116	CB	ASN	263	25.022	71.886	14.011	1.00 47.87	A A
	ATOM	1117	CG	ASN	263	26.334	72.466	14.501	1.00 49.01	A A
15	ATOM	1118		ASN	263	27.373	71.805	14.449	1.00 54.43	A
13	ATOM	1119		ASN	263	26.290	73.702	15.000	1.00 47.01	A
	ATOM		HD21		263	25.440	74.188	15.032	1.00 0.00	A
	ATOM		HD22		263	27.130	74.088	15.322	1.00 0.00	A
	ATOM	1122	C	ASN	263	25.434	70.873	11.775	1.00 49.23	A
20	ATOM	1123	ō	ASN	263	26.273	71.026	10.881	1.00 46.48	A
	ATOM	1124	N	HIS	264	25.029	69.681	12.197	1.00 48.43	A
	ATOM	1125	H	HIS	264	24.391	69.635	12.939	1.00 0.00	A
	ATOM	1126	CA	HIS	264	25.496	68.439	11.599	1.00 47.59	A
	ATOM	1127	CB	HIS	264	24.755	67.255	12.228	1.00 46.90	A
25	ATOM	1128	CG	HIS	264	23.275	67.462	12.359	1.00 50.04	A
	MOTA	1129	CD2	HIS	264	22.549	68.207	13.229	1.00 53.97	A
	ATOM	1130	ND1	HIS	264	22.360	66.865	11.517	1.00 51.14	A
	MOTA	1131		HIS	264	22.581	66.256	10.788	1.00 0.00	A
20	ATOM	1132		HIS	264	21.138	67.228	11.864	1.00 53.11	A
30	MOTA	1133		HIS	264	21.225	68.044	12.898	1.00 55.29	A
	ATOM	1134		HIS	264	20.471	68.460	13.361	1.00 0.00	A
	ATOM	1135	C	HIS	264	25.132	68.550	10.130	1.00 46.97	A
	MOTA	1136 1137	O	HIS	264	24.666	69.593	9.686	1.00 51.57	A
35	ATOM ATOM	1138	N H	ARG ARG	265 265	25.348 25.749	67.496 66.684	9.358 9.732	1.00 44.23	A
33	ATOM	1139	CA	ARG	265	24.983	67.554	7.946	1.00 0.00	A A
	ATOM	1140	CB	ARG	265	23.473	67.816	7.831	1.00 41.47	A
	ATOM	1141	CG	ARG	265	23.030	68.564	6.591	1.00 43.80	A
	ATOM	1142	CD	ARG	265	21.666	68.091	6.130	1.00 47.91	A
40	ATOM	1143	NE	ARG	265	21.163	68.876	5.005	1.00 56.53	A
	MOTA	1144	HE	ARG	265	21.797	69.449	4.527	1.00 0.00	A
	MOTA	1145	CZ	ARG	265	19.901	68.861	4.588	1.00 58.89	A
	MOTA	1146	NH1	ARG	265	19.006	68.099	5.202	1.00 64.72	A
	MOTA		HH11		265	19.281	67.532	5.979	1.00 0.00	Α
45	ATOM		HH12		265	18.057	68.088	4.887	1.00 0.00	A
	MOTA	1149		ARG	265	19.530	69.612	3.561	1.00 63.20	A
	ATOM		HH21		265	20.200	70.192	3.097	1.00 0.00	A
	ATOM		HH22		265	18.580	69.600	3.250	1.00 0.00	A
50	MOTA		C		265	25.777	68.622	7.176	1.00 37.16	A
50	ATOM	1153	0	ARG	265 266	25.768	68.641	5.943	1.00 37.73	A
	MOTA MOTA	1154 1155	N	LEU LEU		26.466	69.497	7.904	1.00 30.79 1.00 0.00	A
	ATOM	1156	H CA	LEU	266 266	26.433 27.274	69.434 70.551	8.878 7.290	1.00 0.00 1.00 37.31	A A
	ATOM	1157	CB	LEU	266	27.832	71.482	8.368	1.00 37.51	A
55	MOTA	1158	CG	LEU	266	27.685	73.002	8.258	1.00 31.43	A
	ATOM	1159		LEU	266	26.593	73.400	7.273	1.00 36.39	A
	ATOM	1160		LEU	266	27.383	73.540	9.638	1.00 28.41	A
	ATOM	1161	C	LEU	266	28.430	69.925	6.523	1.00 42.12	A
	ATOM	1162	0	LEU	266	28.719	70.299	5.388	1.00 43.04	A
60	ATOM	1163	N	GLN	267	29.091	68.967	7.164	1.00 46.26	A
	ATOM	1164	H	GLN	267	28.809	68.723	8.070	1.00 0.00	A
	ATOM	1165	CA	GLN	267	30.218	68.269	6.567	1.00 48.62	A
	ATOM	1166	CB	GLN	267	30.721	67.188	7.521	1.00 54.56	A
	MOTA	1167	CG	GLN	267	30.666	67.601	8.987	1.00 62.75	A
65	ATOM	1168	CD	GLN	267	31.869	67.127	9.787	1.00 67.47	A
	ATOM	1169		GLN	267	32.730	66.406	9.273	1.00 71.87	A
	ATOM	1170		GLN	267	31.935	67.527	11.055	1.00 68.16	A
	ATOM		HE21		267	31.227	68.098	11.420	1.00 0.00	A
70	MOTA		HE22		267	32.700	67.231	11.584	1.00 0.00	A
70	MOTA	1173	C	GLN	267	29.830	67.649	5.231	1.00 48.74	A
	ATOM	1174	O	GLN	267	30.597	67.700	4.271	1.00 47.96	A
	ATOM	1175	N	LYS	268 268	28.637	67.067	5.166	1.00 45.46	A A
	MOTA	1176	H	LYS	268	28.058	67.047	5.955	1.00 0.00	A

	ATOM	1177	CA	LYS	268	28.191	66.463	3.924	1.00 45.48	A
	MOTA	1178	CB	LYS	268	27.048	65.477	4.181	1.00 49.81	A
	ATOM	1179	CG	LYS	268	27.042	64.279	3.240	1.00 56.67	∘A
	ATOM	1180	CD	LYS	268	28.157	63.290	3.578	1.00 61.88	A
5	ATOM	1181	CE	LYS	268	29.009	62.946	2.354	1.00 64.81	A
	MOTA	1182		LYS	268	29.927	61.787	2.599	1.00 70.64	A
	ATOM	1183	HZ1		268	29.368	60.945	2.844	1.00 0.00	A
	MOTA	1184	HZ2		268	30.573	62.014	3.383	1.00 0.00	A
10	ATOM	1185	HZ3		268	30.482	61.595	1.740	1.00 0.00	A
10	ATOM	1186		LYS	268	27.744 27.960	67.533	2.939 1.742	1.00 40.50 1.00 40.62	A A
	ATOM	1187		LYS	268 269	27.360	67.402 68.603	3.434	1.00 40.02	A
	ATOM ATOM	1188 1189		VAL VAL	269	26.991	68.684	4.400	1.00 33.04	A
	ATOM	1190		VAL	269	26.676	69.663	2.538	1.00 37.29	A
15	ATOM	1191		VAL	269	25.782	70.685	3.269	1.00 34.20	A
13	ATOM	1192	CG1		269	25.492	71.860	2.356	1.00 29.69	A
	MOTA	1193	CG2		269	24.492	70.026	3.703	1.00 31.32	A
	MOTA	1194		VAL	269	27.857	70.404	1.921	1.00 35.64	A
	ATOM	1195		VAL	269	27.844	70.725	0.734	1.00 37.28	A
20	MOTA	1196	N	ILE	270	28.876	70.667	2.731	1.00 31.83	A
	ATOM	1197	H	ILE	270	28.833	70.374	3.661	1.00 0.00	A
	MOTA	1198	CA	ILE	270	30.052	71.375	2.261	1.00 33.15	A
	ATOM	1199	CB	ILE	270	30.971	71.750	3.438	1.00 33.05	A
05	ATOM	1200	CG2		270	32.222	72.469	2.930	1.00 24.49	A
25	ATOM	1201	CG1		270	30.209	72.643	4.417	1.00 29.68	A
	ATOM	1202	CD1		270	30.041	74.059	3.944 1.252	1.00 32.31 1.00 38.00	A A
	ATOM	1203 1204	C	ILE ILE	270 270	30.835 31.190	70.541 71.026	0.176	1.00 38.00	A
	ATOM ATOM	1204	N	GLN	270	31.190	69.283	1.603	1.00 34.89	A
30	ATOM	1205	H	GLN	271	30.776	68.956	2.471	1.00 0.00	A
50	MOTA	1207		GLN	271	31.836	68.378	0.735	1.00 40.28	A
	ATOM	1208	CB	GLN	271	32.061	67.038	1.442	1.00 45.96	A
	ATOM	1209	CG	GLN	271	32.724	65.972	0.580	1.00 50.37	A
	ATOM	1210	CD	GLN	271	34.111	66.365	0.114	1.00 54.51	A
35	MOTA	1211	OE1	GLN	271	34.298	66.806	-1.026	1.00 54.16	A
	ATOM	1212	NE2		271	35.102	66.201	0.988	1.00 55.62	A
	MOTA		HE21		271	34.908	65.841	1.879	1.00 0.00	A
	MOTA		HE22		271	36.004	66.448	0.704	1.00 0.00	A
40	ATOM	1215		GLN	271	31.103	68.154	-0.583	1.00 42.88	A 2
40	MOTA MOTA	1216 1217	O N	GLN ASP	271 272	31.722 29.783	67.846 68.297	-1.599 -0.566	1.00 46.33 1.00 40.17	A A
	ATOM	1218	H	ASP	272	29.783	68.520	0.276	1.00 0.00	A
	ATOM	1219	CA	ASP	272	28.999	68.125	-1.778	1.00 41.34	A
	ATOM	1220	CB	ASP	272	27.529	67.885	-1.439	1.00 43.85	A
45	ATOM	1221	CG	ASP	272	27.249	66.451	-1.068	1.00 45.57	A
	MOTA	1222	OD1	ASP	272	27.395	66.103	0.115	1.00 46.69	Α
	ATOM	1223	OD2		272	26.885	65.663	-1.960	1.00 53.57	A
	MOTA	1224	С	ASP	272	29.128	69.379	-2.632	1.00 41.62	A
50	ATOM	1225		ASP	272	28.871	69.354	-3.841	1.00 39.28	A
50	ATOM	1226	N	CYS	273	29.520	70.477	-1.992	1.00 37.21 1.00 0.00	A
	ATOM	$\frac{1227}{1228}$	H	CYS CYS	273 273	29.694 29.697	70.431 71.746	-1.028 -2.685	1.00 34.88	A A
	MOTA MOTA	1229	CA CB	CYS	273	29.580	72.910	-1.697	1.00 28.59	Ā
	ATOM	1230	SG	CYS	273	27.871	73.342	-1.278	1.00 31.88	A
55	ATOM	1231	C	CYS	273	31.078	71.760	-3.326	1.00 34.92	A
	ATOM	1232	Ō	CYS	273	31.226	72.094	-4.504	1.00 26.50	A
	MOTA	1233	N	GLU	274	32.072	71.384	-2.524	1.00 35.57	A
	ATOM	1234	H	GLU	274	31.847	71.129	-1.606	1.00 0.00	A
	ATOM	1235	CA	GLU	274	33.470	71.329	-2.924	1.00 38.47	A
60	MOTA	1236	CB	GLU	274	34.305	70.927	-1.706	1.00 45.16	A
	ATOM	1237	CG	GLU	274	35.785	70.680	-1.935	1.00 50.75	A
	ATOM	1238	CD	GLU	274	36.356	69.705	-0.908	1.00 56.66	A
	MOTA	1239	OE1		274	37.306	70.063	-0.173	1.00 58.10	A
65	MOTA	1240	OE2		274	35.846	68.569	-0.833	1.00 62.18	A
65	ATOM	1241	C	GLU	274	33.629	70.318	-4.054	1.00 43.44 1.00 46.62	A A
	MOTA MOTA	1242 1243	N O	GLU ASP	274 275	34.555 32.713	70.407 69.357	-4.862 -4.112	1.00 46.62	A A
	ATOM	1244	H	ASP	275	32.713	69.326	-3.440	1.00 44.00	A
	ATOM	1245	CA	ASP	275	32.757	68.356	-5.160	1.00 43.67	A
70	ATOM	1246	CB	ASP	275	31.995	67.104	-4.737	1.00 48.36	A
. •	ATOM	1247	CG	ASP	275	32.919	65.936	-4.468	1.00 49.82	A
	MOTA	1248	OD1		275	32.936	64.992	-5.286	1.00 54.38	A
	MOTA	1249	OD2		275	33.634	65.969	-3.443	1.00 54.23	A

	MOTA	1250	С	ASP	275	32.158	68.947	-6.428	1.00 43.28	A
	MOTA	1251	0	ASP	275	32.578	68.610	-7.540	1.00 35.41	A
	ATOM	1252	N	GLU	276	31.187	69.840	-6.256	1.00 39.61	A
	MOTA	1253	H	GLU	276	30.890	70.058	-5.349	1.00 0.00	A
5	MOTA	1254	CA	GLU	276	30.551	70.503	-7.392	1.00 42.30	A
	MOTA	1255	CB	GLU	276	29.085	70.815	-7.078	1.00 44.73	A
	ATOM	1256	CG	GLU	276	28.246	69.581	-6.784	1.00 47.48	A
	ATOM	1257	CD	GLU	276	26.769	69.817	-7.011	1.00 50.24	A
	ATOM	1258	OE1		276	25.950	69.064	-6.437	1.00 50.57	А
10	ATOM	1259	OE2		276	26.428	70.755	-7.762	1.00 48.92	A
	ATOM	1260	C	GLU	276	31.314	71.793	-7.678	1.00 40.70	A
	ATOM	1261	Ö	GLU	276	30.789	72.716	-8.301	1.00 40.89	A
	ATOM	1262	N	ASN	277	32.563	71.829	-7.211	1.00 40.17	A
	ATOM	1263	H	ASN	277	32.899	71.045	-6.732	1.00 0.00	A
15	ATOM	1264	CA	ASN	277	33.465	72.974	-7.373	1.00 40.38	A
1.0	ATOM	1265	CB	ASN	277	34.157	72.914	-8.733	1.00 41.95	A
	ATOM	1266	CG	ASN	277	35.220	71.832	-8.789	1.00 47.84	A
	ATOM	1267		ASN	277	36.408	72.097	-8.578	1.00 49.04	A
	ATOM	1268	ND2		277	34.791	70.605	-9.066	1.00 46.30	A
20	ATOM	1269			277	33.840	70.438	-9.221	1.00 40.30	A
20	ATOM	1270			277	35.466	69.895	-9.104	1.00 0.00	A
		1271	C C	ASN	277	32.791	74.327	-7.192	1.00 36.39	Ā
	MOTA	1271		ASN	277	32.712	75.137	-8.119	1.00 36.33	A
	ATOM	1273	O NT		278	32.712	74.569	-5.980	1.00 34.58	Ā
25	ATOM		N	ILE			73.890	-5.281	1.00 34.38	A
23	ATOM	1274	H	ILE	278 278	32.422	75.819	-5.261 -5.665	1.00 34.26	
	ATOM	1275	CA	ILE		31.652		-5.162		A
	MOTA	1276	CB	ILE	278	30.228	75.549		1.00 30.91	A
	ATOM	1277		ILE	278	29.646	76.814	-4.530	1.00 32.30	A
20	ATOM	1278	CG1		278	29.368	75.058	-6.331	1.00 26.81	A
30	MOTA	1279		ILE	278	27.955	74.622	-5.936	1.00 27.38	A
	MOTA	1280	C	ILE	278	32.424	76.617	-4.616	1.00 35.39	A
	ATOM	1281	0	ILE	278	32.412	76.275	-3.431	1.00 35.14	A
	ATOM	1282	N	GLN	279	33.105	77.671	-5.062	1.00 34.70	A
25	MOTA	1283	H	GLN	279	33.095	77.872	-6.022	1.00 0.00	A
35	ATOM	1284	CA	GLN	279	33.869	78.537	-4.166	1.00 33.01	A
	MOTA	1285	CB	GLN	279	34.560	79.647	-4.954	1.00 38.07	A
	MOTA	1286	CG	GLN	279	35.956	79.282	-5.430	1.00 46.02	A
	MOTA	1287	CD	GLN	279	37.019	80.222	-4.886	1.00 49.56	A
40	ATOM	1288		GLN	279	36.779	81.422	-4.726	1.00 40.91	A
40	MOTA	1289	NE2	$_{ m GLN}$	279	38.205	79.680	-4.601	1.00 48.01	A
	ATOM		HE21		279	38.352	78.722	-4.749	1.00 0.00	A
	MOTA	1291	HE22	GLN	279	38.901	80.273	-4.252	1.00 0.00	A
	MOTA	1292	С	GLN	279	32.900	79.155	-3.163	1.00 30.48	A
4 ==	MOTA	1293	0	GLN	279	31.861	79.680	-3.543	1.00 26.66	A
45	MOTA	1294	N	ARG	280	33.253	79.098	-1.882	1.00 31.39	A
	ATOM	1295	H	ARG	280	34.114	78.698	-1.641	1.00 0.00	A
	MOTA	1296	CA	ARG	280	32.388	79.622	-0.833	1.00 32.62	A
	ATOM	1297	CB	ARG	280	31.864	78.452	0.013	1.00 31.05	A
~~	MOTA	1298	CG	ARG	280	31.447	77.246	-0.823	1.00 30.23	A
50	MOTA	1299	CD	ARG	280	31.031	76.072	0.033	1.00 29.02	A
	MOTA	1300	NE	ARG	280	32.172	75.403	0.641	1.00 23.82	A
	MOTA	1301	HE	ARG	280	32.358	75.574	1.588	1.00 0.00	A
	MOTA	1302	CZ	ARG	280	32.972	74.567	-0.008	1.00 30.22	A
	MOTA	1303		ARG	280	32.756	74.297	-1.290	1.00 32.10	A
55	MOTA		HH11		280	31.983	74.717	-1.766	1.00 0.00	A
	ATOM		HH12		280	33.362	73.669	-1.778	1.00 0.00	A
	MOTA	1306	NH2	ARG	280	33.985	73.996	0.627	1.00 33.41	A
	MOTA		HH21		280	34.141	74.190	1.595	1.00 0.00	A
	MOTA	1308	HH22	ARG	280	34.592	73.369	0.138	1.00 0.00	A
60	MOTA	1309	С	ARG	280	33.046	80.673	0.070	1.00 31.10	A
	MOTA	1310	0	ARG	280	34.146	80.477	0.598	1.00 29.04	A
	ATOM	1311	N	PHE	281	32.354	81.792	0.231	1.00 27.75	A
	ATOM	1312	H	PHE	281	31.499	81.890	-0.231	1.00 0.00	A
	ATOM	1313	CA	PHE	281	32.824	82.879	1.074	1.00 30.07	A
65	MOTA	1314	CB	PHE	281	32.798	84.199	0.303	1.00 28.77	A
	ATOM	1315	CG	PHE	281	33.920	84.348	-0.671	1.00 31.37	A
	ATOM	1316		PHE	281	33.774	83.928	-1.988	1.00 37.93	A
	MOTA	1317		PHE	281	35.136	84.893	-0.272	1.00 33.95	A
	ATOM	1318		PHE	281	34.830	84.047	-2.894	1.00 38.18	A
70	ATOM	1319		PHE	281	36.196	85.014	-1.174	1.00 31.36	A
	ATOM	1320	CZ	PHE	281	36.042	84.591	-2.481	1.00 33.33	A
	ATOM	1321	c c	PHE	281	31.857	82.952	2.247	1.00 31.00	A
	ATOM	1322	Õ	PHE	281	30.676	83.214	2.045	1.00 33.33	A
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	» п ом	1202	N.T.	CED	202	20 227	01 700	3.463	1.00 27.38	7)
	ATOM ATOM	1323 132 4	N H	SER SER	282 282	32.337 33.286	82.708 82.493	3.582	1.00 27.38	A A
	ATOM	1325	CA	SER	282	31.455	82.765	4.610	1.00 31.18	A
	ATOM	1326	CB	SER	282	31.462	81.425	5.359	1.00 29.23	A
5	ATOM	1327	OG	SER	282	32.690	81.189	6.020	1.00 25.15	A
	MOTA	1328	$^{\mathrm{HG}}$	SER	282	33.402	81.171	5.376	1.00 0.00	A
	MOTA	1329	С	SER	282	31.777	83.919	5.560	1.00 32.76	A
	MOTA	1330	0	SER	282	32.886	84.044	6.079	1.00 37.88	A
10	ATOM	1331	N	ILE	283	30.777	84.766	5.766	1.00 33.62	A
10	MOTA	1332	H	ILE	283 283	29.927 30.887	84.603 85.921	5.308 6.634	1.00 0.00 1.00 30.37	A A
	ATOM ATOM	1333 1334	CA CB	ILE	283	30.324	87.183	5.944	1.00 30.37	A
	ATOM	1335	CG2	ILE	283	30.920	88.435	6.571	1.00 33.05	A
	ATOM	1336	CG1	ILE	283	30.634	87.144	4.448	1.00 28.09	A
15	ATOM	1337	CD1	ILE	283	30.588	88.512	3.781	1.00 33.55	A
	ATOM	1338	С	ILE	283	30.095	85.671	7.911	1.00 30.75	A
	MOTA	1339	0	ILE	283	28.878	85.485	7.869	1.00 30.38	A
	ATOM	1340	N	ALA	284	30.797	85.658	9.038	1.00 25.22	A
20	ATOM	1341	H	ALA	284	31.767	85.785	8.990	1.00 0.00 1.00 25.92	A
20	ATOM	1342 1343	CA	ALA ALA	284 284	30.183 31.034	85.462 84.480	10.344 11.172	1.00 25.92	A A
	ATOM ATOM	1344	CB C	ALA	284	30.026	86.790	11.114	1.00 25.45	A
	ATOM	1345	0	ALA	284	31.025	87.437	11.458	1.00 23.52	A
	MOTA	1346	N	ILE	285	28.780	87.188	11.379	1.00 21.71	A
25	MOTA	1347	H	ILE	285	28.033	86.646	11.052	1.00 0.00	A
	MOTA	1348	CA	$_{ m ILE}$	285	28.484	88.404	12.142	1.00 14.56	A
	MOTA	1349	CB	ILE	285	27.122	89.033	11.672	1.00 20.57	A
	ATOM	1350	CG2	ILE	285	26.861	90.366	12.360	1.00 16.36	A
30	ATOM ATOM	1351 1352	CG1 CD1	$_{ m ILE}$	285 285	27.157 25.781	89.301 89.470	10.171 9.533	1.00 15.00 1.00 16.25	A A
30	ATOM	1352	CDI	ILE	285	28.427	87.958	13.618	1.00 18.23	A
	ATOM	1354	0	ILE	285	27.631	87.083	13.985	1.00 20.11	A
	ATOM	1355	N	LEU	286	29.295	88.521	14.465	1.00 17.38	A
	MOTA	1356	H	LEU	286	29.905	89.212	14.134	1.00 0.00	A
35	ATOM	1357	CA	LEU	286	29.348	88.131	15.884	1.00 17.79	A
	MOTA	1358	CB	LEU	286	30.798	88.163	16.409	1.00 20.85	A
	MOTA	1359 1360	CG CD1	LEU LEU	286 286	31.846 32.975	87.099 87.139	16.069 17.093	1.00 23.26 1.00 26.78	A A
	MOTA MOTA	1361			286	31.217	85.739	16.067	1.00 25.78	A
40	ATOM	1362	C	LEU	286	28.501	89.056	16.754	1.00 18.17	A
	ATOM	1363	Ö	LEU	286	28.515	88.951	17.983	1.00 20.22	A
	ATOM	1364	N	GLY	287	27.788	89.969	16.099	1.00 22.67	A
	ATOM	1365	H	GLY	287	27.840	89.999	15.120	1.00 0.00	A
45	ATOM	1366	CA	GLY	287	26.941	90.925	16.789	1.00 20.22	A
45	ATOM	1367	C	GLY	287 287	26.080 26.381	90.382 90.585	17.913 19.089	1.00 16.26 1.00 23.96	A A
	MOTA MOTA	1368 1369	O N	GLY HIS	288	25.000	89.693	17.572	1.00 23.36	A
	ATOM	1370	H	HIS	288	24.798	89.534	16.627	1.00 0.00	A
	MOTA	1371	CA	HIS	288	24.109	89.168	18.608	1.00 20.44	A
50	ATOM	1372	CB	HIS	288	22.990	88.312	17.970	1.00 19.88	A
	ATOM	1373	CG	HIS	288	21.974	87.804	18.950	1.00 23.39	A
	ATOM	1374		HIS	288	21.917	86.650	19.654	1.00 17.27	A
	ATOM	1375		HIS	288	20.917 20.679	88.571	19.385	1.00 15.20 1.00 0.00	A
55	MOTA MOTA	1376 1377		HIS HIS	288 288	20.879	89.455 87.909	19.045 20.310	1.00 0.00 1.00 15.13	A A
33	ATOM	1378		HIS	288	20.832	86.739	20.310	1.00 13.13	A
	MOTA	1379	HE2		288	20.535	86.056	21.118	1.00 0.00	A
	MOTA	1380	C	HIS	288	24.850	88.371	19.715	1.00 17.46	A
	ATOM	1381	0	HIS	288	24.579	88.541	20.902	1.00 17.25	A
60	MOTA	1382	N	TYR	289	25.798	87.525	19.334	1.00 18.14	A
	MOTA	1383	H	TYR	289	26.023	87.431	18.384	1.00 0.00	A
	ATOM	1384	CA	TYR	289	26.505 27.405	86.737 85.709	20.330 19.647	1.00 16.63 1.00 25.01	A A
	ATOM ATOM	1385 1386	CB CG	TYR TYR	289 289	26.727	84.387	19.312	1.00 25.01	A
65	MOTA	1387		TYR	289	25.631	84.330	18.449	1.00 26.68	A
55	ATOM	1388		TYR	289	25.073	83.092	18.064	1.00 29.84	A
	ATOM	1389		TYR	289	27.245	83.176	19.792	1.00 29.68	A
	MOTA	1390	CE2	TYR	289	26.697	81.941	19.415	1.00 19.88	A
~ ^	ATOM	1391	CZ	TYR	289	25.624	81.904	18.551	1.00 24.45	A
70	ATOM	1392	OH	TYR	289	25.129	80.680	18.154	1.00 29.76	A
	ATOM	1393	HH	TYR	289 289	24.390 27.323	80.813 87.613	17.553 21.277	1.00 0.00 1.00 20.22	A A
	MOTA MOTA	1394 1395	C 0	TYR TYR	289 289	27.369	87.356	22.481	1.00 20.22	A
	AIOH	ل ز ر ب	J	T T T/	207	27.307	5,.550		1.00 19.02	21

		1206			000	00.056	00 655	00 850	1 00 10 01	3
	ATOM ATOM	1396 1397	N H	ASN ASN	290 290	27.956 27.904	88.655 88.835	20.750 19.789	1.00 18.81 1.00 0.00	A A
	ATOM	1398	CA	ASN	290	28.739	89.532	21.621	1.00 0.00	Ā
	ATOM	1399	CB	ASN	290	29.625	90.469	20.804	1.00 19.19	A
5	ATOM	1400	CG	ASN	290	30.840	89.780	20.231	1.00 22.46	А
	MOTA	1401	OD1		290	31.270	88.736	20.715	1.00 23.52	A
	ATOM	1402	ND2		290	31.400	90.370	19.186	1.00 25.92	A
	ATOM ATOM		HD21 HD22		290 290	31.020 32.188	91.202 89.942	18.832 18.796	1.00 0.00 1.00 0.00	A A
10	ATOM	1405	C	ASN	290	27.822	90.378	22.493	1.00 15.64	A
	ATOM	1406	0	ASN	290	28.108	90.600	23.672	1.00 23.61	A
	MOTA	1407	N	ARG	291	26.723	90.865	21.924	1.00 15.28	A
	ATOM	1408	H	ARG	291	26.524	90.672	20.984	1.00 0.00	A
15	ATOM	1409 1410	CA CB	ARG ARG	291 291	25.812 24.679	91.687 92.252	22.713 21.845	1.00 14.06 1.00 16.24	A A
15	ATOM ATOM	1411	CG	ARG	291	25.183	93.144	20.702	1.00 16.24	A
	ATOM	1412	CD	ARG	291	24.091	94.025	20.084	1.00 29.20	A
	ATOM	1413	NE	ARG	291	23.283	93.333	19.077	1.00 19.59	A
20	ATOM	1414	HE	ARG	291	22.365	93.092	19.317	1.00 0.00	A
20	ATOM	1415	CZ	ARG	291	23.709 24.948	93.013	17.859	1.00 34.23 1.00 34.45	A
	ATOM ATOM	1416 1417	NH1 HH11		291 291	25.559	93.323 93.796	17.484 18.117	1.00 34.45 1.00 0.00	A A
	ATOM		HH12		291	25.268	93.078	16.568	1.00 0.00	A
	ATOM	1419	NH2		291	22.898	92.381	17.014	1.00 30.49	A
25	ATOM		HH21		291	21.967	92.149	17.292	1.00 0.00	A
	ATOM		HH22		291	23.222	92.139	16.099	1.00 0.00	A
	ATOM ATOM	1422 1423	C 0	ARG ARG	291 291	25.268 25.073	90.835 91.317	23.845 24.963	1.00 12.25 1.00 17.10	A A
	ATOM	1424	N	GLY	292	25.073	89.551	23.576	1.00 13.55	A
30	ATOM	1425	H	GLY	292	25.286	89.193	22.690	1.00 0.00	A
	ATOM	1426	CA	GLY	292	24.534	88.675	24.616	1.00 11.54	A
	ATOM	1427	C	GLY	292	25.542	88.057 87.246	25.562	1.00 22.48	A
	ATOM ATOM	1428 1429	N O	GLY ASN	292 293	25.169 26.813	88.425	26.411 25.422	1.00 30.06 1.00 25.61	A A
35	ATOM	1430	H	ASN	293	27.049	89.065	24.719	1.00 0.00	A
	MOTA	1431	CA	ASN	293	27.867	87.897	26.281	1.00 29.06	A
	MOTA	1432	CB	ASN	293	27.567	88.238	27.750	1.00 33.48	A
	ATOM	1433	CG OD1	ASN	293	27.687	89.741	28.058	1.00 41.34 1.00 41.61	A A
40	ATOM ATOM	1434 1435	OD1 ND2		293 293	27.506 27.988	90.595 90.060	27.185 29.319	1.00 41.81	A
	MOTA		HD21		293	28.120	89.353	29.985	1.00 0.00	A
	ATOM	1437	HD22	ASN	293	28.069	91.011	29.537	1.00 0.00	A
	ATOM	1438	C	ASN	293	28.042	86.369	26.116	1.00 31.86	A
45	ATOM ATOM	1439 1440	N O	ASN LEU	293 29 4	28.265 27.952	85.652 85.884	27.093 24.877	1.00 25.49 1.00 35.13	A A
43	ATOM	1441	H	LEU	294	27.332	86.501	24.138	1.00 0.00	A
	ATOM	1442	CA	LEU	294	28.102	84.456	24.588	1.00 33.84	A
	MOTA	1443	CB	LEU	294	26.918	83.942	23.747	1.00 34.45	A
50	MOTA	1444	CG	LEU	294	25.482	84.323	24.145	1.00 35.78	A
50	ATOM ATOM	1445 1446		LEU LEU	294 294	24.601 24.923	84.404 83.299	22.911 25.121	1.00 35.34 1.00 34.64	A A
	ATOM	1447	CDZ	LEU	294	29.415	84.154	23.852	1.00 34.04	A
	ATOM	1448	Ō	LEU	294	29.957	85.002	23.137	1.00 32.23	A
	MOTA	1449	N	SER	295	29.930	82.943	24.056	1.00 38.58	A
55	ATOM	1450	H	SER	295	29.465	82.328	24.659	1.00 0.00	A
	ATOM ATOM	$1451 \\ 1452$	CA CB	SER SER	295 295	31.163 31.590	82.499 81.113	23.409 23.930	1.00 38.66 1.00 40.11	A A
	MOTA	1453	OG	SER	295	31.942	81.141	25.306	1.00 45.34	A
	MOTA	1454	HG	SER	295	31.187	81.434	25.822	1.00 0.00	A
60	ATOM	1455	C	SER	295	30.881	82.404	21.914	1.00 33.43	A
	ATOM	1456	0	SER	295	29.780	82.064	21.499	1.00 25.91	A
	ATOM ATOM	1457 1458	N H	THR THR	296 296	31.881 32.745	82.703 82.966	21.107 21.488	1.00 34.10 1.00 0.00	A A
	ATOM	1459	CA	THR	296	31.722	82.649	19.670	1.00 32.52	A
65	ATOM	1460	CB	THR	296	31.966	84.030	19.052	1.00 30.78	A
	MOTA	1461		THR	296	33.072	84.647	19.717	1.00 36.83	A
	ATOM	1462		THR	296	33.856	84.103	19.610	1.00 0.00	A
	ATOM	1463 1464		THR THR	296 296	30.740 32.759	84.916 81.673	19.220 19.155	1.00 29.89 1.00 31.85	A A
70	ATOM ATOM	1465	С 0	THR	296	32.898	81.483	17.952	1.00 31.85	A
	ATOM	1466	N	GLU	297	33.482	81.059	20.089	1.00 33.84	A
	ATOM	1467	H	GLU	297	33.304	81.261	21.032	1.00 0.00	Α
	ATOM	1468	CA	GLU	297	34.531	80.096	19.763	1.00 39.29	A

	ATOM	1469	CB	GLU	297	35.065	79.416	21.036	1.00 45.48	A
	MOTA	1470	CG	GLU	297	34.108	79.377	22.233	1.00 56.35	A
	MOTA	1471	CD	GLU	297	32.848	78.554	21.977	1.00 58.88	A
	MOTA	1472	OE1	GLU	297	32.842	77.338	22.267	1.00 60.54	A
5	ATOM	1473		GLU	297	31.855	79.130	21.489	1.00 62.33	A
-	ATOM	1474		GLU	297	34.086	79.024	18.772	1.00 35.45	A
	MOTA	1475		GLU	297	34.729	78.809	17.748	1.00 34.80	A
	ATOM	1476		LYS	298	32.982	78.356	19.074	1.00 34.37	A
	ATOM	1477		LYS	298	32.498	78.581	19.895	1.00 0.00	A
10	MOTA	1478		LYS	298	32.466	77.300	18.213	1.00 35.58	A
10	ATOM	1479		LYS	298	31.520	76.414	19.007	1.00 33.36	A
	ATOM	1480		LYS	298	32.038	75.026	19.221	1.00 41.82	A
		1481		LYS	298	30.941	74.125	19.729	1.00 42.14	A
	MOTA						73.832	21.200	1.00 42.14	A
15	ATOM	1482		LYS	298	31.135				
15	ATOM	1483		LYS	298	32.466	74.301	21.688	1.00 50.64	A.
	ATOM	1484	HZ1		298	32.544	75.328	21.550	1.00 0.00	A
	ATOM	1485	HZ2		298	33.219	73.820	21.158	1.00 0.00	A
	ATOM	1486	HZ3		298	32.559	74.079	22.701	1.00 0.00	A
20	ATOM	1487	C	LYS	298	31.743	77.850	16.992	1.00 31.74	A
20	MOTA	1488		LYS	298	31.765	77.236	15.922	1.00 32.24	A
	ATOM	1489	N	PHE	299	31.101	79.005	17.170	1.00 29.34	A
	MOTA	1490	H	PHE	299	31.131	79.425	18.053	1.00 0.00	A
	MOTA	1491	CA	PHE	299	30.353	79.673	16.102	1.00 28.31	A
	MOTA	1492	CB	PHE	299	29.612	80.883	16.703	1.00 27.71	A
25	MOTA	1493	CG	PHE	299	29.131	81.904	15.699	1.00 19.45	A
	ATOM	1494	CD1	PHE	299	28.503	81.526	14.516	1.00 15.16	A
	ATOM	1495	CD2	PHE	299	29.287	83.261	15.964	1.00 16.16	A
	ATOM	1496	CE1	PHE	299	28.046	82.496	13.616	1.00 15.54	A
	MOTA	1497	CE2	PHE	299	28.832	84.227	15.075	1.00 9.30	A
30	ATOM	1498	CZ	PHE	299	28.215	83.851	13.903	1.00 7.56	A
	ATOM	1499	С	PHE	299	31.296	80.076	14.966	1.00 27.62	A
	ATOM	1500	0	PHE	299	30.999	79.828	13.803	1.00 23.92	A
	MOTA	1501		VAL	300	32.440	80.667	15.300	1.00 32.50	A
	ATOM	1502		VAL	300	32.635	80.834	16.246	1.00 0.00	A
35	ATOM	1503		VAL	300	33.419	81.074	14.280	1.00 40.70	A
	ATOM	1504	CB	VAL	300	34.545	81.950	14.877	1.00 45.83	A
	ATOM	1505		VAL	300	35.734	81.084	15.280	1.00 49.69	A
	ATOM	1506	CG2		300	34.988	82.975	13.860	1.00 49.35	A
	ATOM	1507	C	VAL	300	34.082	79.887	13.575	1.00 39.59	A
40	ATOM	1508	Ö	VAL	300	34.426	79.974	12.399	1.00 39.52	A
	ATOM	1509	N	GLU	301	34.274	78.791	14.302	1.00 38.31	A
	ATOM	1510	H	GLU	301	34.001	78.787	15.244	1.00 0.00	A
	ATOM	1511	CA	GLU	301	34.879	77.597	13.736	1.00 39.63	A
	ATOM	1512	CB	GLU	301	35.240	76.607	14.849	1.00 49.28	A
45	ATOM	1513	CG	GLU	301	36.060	75.406	14.388	1.00 51.49	A
43	ATOM	1514	CD	GLU	301	35.928	74.221	15.328	1.00 57.74	A
	ATOM	1515	OE1		301	34.879	73.542	15.283	1.00 60.72	A
	ATOM	1516	OE2		301	36.867	73.968	16.114	1.00 58.47	A
	ATOM	1517		GLU	301	33.933	76.932	12.742	1.00 37.25	A
50		1518	-		301	34.360	76.469	11.695	1.00 34.80	
50	MOTA		O	GLU		32.647	76.880	13.061	1.00 34.80	A A
	MOTA	1519	N	GLU	302 302		77.260	13.001	1.00 29.99	
	MOTA	1520	H	GLU		32.332	76.254	12.144	1.00 29.62	A
	ATOM	1521	CA	GLU	302	31.713			1.00 29.02	A
55	ATOM	1522	CB	GLU	302	30.345	76.072	12.800		A
55	ATOM	1523	CG	GLU	302	29.188	76.118	11.813	1.00 30.24	A
	ATOM	1524		GLU	302	27.839	76.218	12.489	1.00 26.05	A
	MOTA	1525	OE1		302	27.674	75.643	13.581	1.00 24.89	A
	MOTA	1526		GLU	302	26.940	76.870	11.925	1.00 30.75	A
	MOTA	1527	C	GLU	302	31.574	77.093	10.874	1.00 32.99	A
60	MOTA	1528	0	GLU	302	31.445	76.549	9.775	1.00 30.91	A
	MOTA	1529	N	ILE	303	31.615	78.416	11.014	1.00 31.38	A
	ATOM	1530	H	ILE	303	31.732	78.810	11.904	1.00 0.00	A
	MOTA	1531	CA	ILE	303	31.486	79.283	9.842	1.00 31.29	A
	MOTA	1532	CB	ILE	303	31.187	80.752	10.241	1.00 28.58	A
65	ATOM	1533	CG2	ILE	303	30.822	81.554	9.009	1.00 23.48	A
	MOTA	1534	CG1	ILE	303	30.043	80.800	11.264	1.00 26.97	A
	ATOM	1535	CD1		303	28.805	80.026	10.852	1.00 24.95	A
	MOTA	1536	С	ILE	303	32.773	79.228	9.029	1.00 33.05	A
	MOTA	1537	Ō	ILE	303	32.744	79.181	7.796	1.00 35.02	A
70	ATOM	1538	N	LYS	304	33.903	79.248	9.724	1.00 30.79	A
	ATOM	1539	H	LYS	304	33.869	79.332	10.698	1.00 0.00	A
	ATOM	1540	CA	LYS	304	35.190	79.150	9.060	1.00 30.72	A
	ATOM	1541	CB	LYS	304	36.298	78.979	10.118	1.00 33.59	A
					-		-	-		

	ATOM	1542	CG LYS	304	37.724	79.320	9.642	1.00 41.97	А
	ATOM	1543	CD LYS	304	38.511	80.155	10.667	1.00 41.17	A
	ATOM	1544	CE LYS	304	39.416	81.173	9.976	1.00 42.05	A
	ATOM	1545	NZ LYS	304	40.815	80.691	9.824	1.00 41.08	A
5	ATOM	1546	HZ1 LYS	304	40.823	79.820	9.256	1.00 0.00	A
-	ATOM	1547	HZ2 LYS	304	41.217	80.495	10.764	1.00 0.00	A
	MOTA	1548	HZ3 LYS	304	41.384	81.421	9.350	1.00 0.00	A
	MOTA	1549	C LYS	304	35.100	77.904	8.161	1.00 25.59	A
	MOTA	1550	O LYS	304	35.395	77.951	6.969	1.00 33.47	A
10	MOTA	1551	N SER	305	34.661	76.800	8.767	1.00 26.69	A
	MOTA	1552	H SER	305	34.433	76.870	9.716	1.00 0.00	A
	ATOM	1553	CA SER	305	34.498	75.489	8.125	1.00 22.76	A
	ATOM	1554	CB SER	305	33.932	74.498	9.144	1.00 27.40	A
1 =	ATOM	1555	OG SER	305	32.539	74.298	8.939	1.00 24.13	A
15	ATOM	1556	HG SER	305	32.075	75.133	9.030 6.860	1.00 0.00 1.00 24.66	A A
	ATOM	1557	C SER	305 305	33.635 33.536	75.403 74.340	6.239	1.00 24.00	A
	ATOM	1558 1559	O SER	305	32.983	76.490	6.482	1.00 27.33	A
	MOTA MOTA	1560	H ILE	306	33.058	77.317	7.005	1.00 23.24	Ā
20	ATOM	1561	CA ILE	306	32.154	76.453	5.294	1.00 20.72	A
20	ATOM	1562	CB ILE	306	30.828	77.211	5.513	1.00 17.86	A
	ATOM	1563	CG2 ILE	306	30.078	77.326	4.209	1.00 20.63	A
	ATOM	1564	CG1 ILE	306	29.952	76.448	6.510	1.00 20.49	A
	MOTA	1565	CD1 ILE	306	29.382	77.307	7.603	1.00 19.14	A
25	ATOM	1566	C ILE	306	32.908	77.098	4.156	1.00 16.50	A
	ATOM	1567	O ILE	306	32.689	76.783	2.994	1.00 19.41	A
	MOTA	1568	N ALA	307	33.833	77.979	4.499	1.00 22.89	A
	MOTA	1569	H ALA	307	34.019	78.150	5.446	1.00 0.00	A
	ATOM	1570	CA ALA	307	34.576	78.686	3.480	1.00 24.83	A
30	ATOM	1571	CB ALA	307	35.383	79.794	4.123	1.00 30.01	A
	MOTA	1572	C ALA	307	35.476	77.766	2.665	1.00 23.99	A
	ATOM	1573	O ALA	307	36.047	76.812	3.187	1.00 21.83	A
	MOTA	1574	N SER	308	35.568	78.035	1.368 0.987	1.00 23.95 1.00 0.00	A A
35	MOTA	1575 1576	H SER	308 308	35.037 36.445	78.765 77.252	0.511	1.00 0.00	A
33	ATOM ATOM	1577	CA SER CB SER	308	36.343	77.740	-0.937	1.00 23.22	A
	ATOM	1578	OG SER	308	35.241	77.145	-1.606	1.00 28.41	A
	ATOM	1579	HG SER	308	34.430	77.376	-1.149	1.00 0.00	A
	ATOM	1580	C SER	308	37.870	77.489	1.035	1.00 34.88	A
40	ATOM	1581	O SER	308	38.119	78.483	1.724	1.00 32.75	A
	ATOM	1582	N GLU	309	38.795	76.581	0.722	1.00 40.30	A
	ATOM	1583	H GLU	309	38.537	75.801	0.188	1.00 0.00	A
	MOTA	1584	CA GLU	309	40.191	76.729	1.160	1.00 42.81	A
	MOTA	1585	CB GLU	309	40.931	75.385	1.086	1.00 46.85	A
45	ATOM	1586	CG GLU	309	40.454	74.318	2.062	1.00 53.06	A
	ATOM	1587	CD GLU	309	41.310	74.231	3.318	1.00 57.34	A
	ATOM	1588	OE1 GLU	309	42.553	74.307	3.215	1.00 58.52	A
	ATOM	1589	OE2 GLU	309	40.734	74.085	4.416	1.00 61.40	A A
50	MOTA	1590 1591	C GLU O GLU	309 309	40.861 40.550	77.715	0.205 -0.987	1.00 43.24	A A
50	ATOM ATOM	1592	N PRO	310	41.762	78.581	0.706	1.00 40.58	A
	ATOM	1593	CD PRO	310	42.414	79.532	-0.216	1.00 41.03	A
	ATOM	1594	CA PRO	310	42.250	78.757	2.080	1.00 41.16	A
	ATOM	1595	CB PRO	310	43.538	79.545	1.899	1.00 43.29	A
55	ATOM	1596	CG PRO	310	43.269	80.379	0.695	1.00 42.72	A
	ATOM	1597	C PRO	310	41.242	79.519	2.942	1.00 41.57	A
	ATOM	1598	O PRO	310	40.758	80.582	2.553	1.00 35.45	A
	ATOM	1599	N THR	311	40.953	78.976	4.118	1.00 40.54	A
	MOTA	1600	H THR	311	41.400	78.144	4.378	1.00 0.00	A
60	MOTA	1601	CA THR	311	39.991	79.574	5.033	1.00 40.87	A
	MOTA	1602	CB THR	311	39.893	78.738	6.311	1.00 39.66	A
	MOTA	1603	OG1 THR	311	39.391	79.549	7.377	1.00 46.71	A
	ATOM	1604	HG1 THR	311	38.520	79.880	7.146	1.00 0.00	A
65	ATOM	1605	CG2 THR	311	41.258	78.200	6.690 5.413	1.00 43.68 1.00 44.47	A a
65	MOTA	1606	C THR	311	40.246	81.037	5.413	1.00 44.47	A A
	ATOM	1607	O THR	311	39.299 41 514	81.802 81.432	5.520	1.00 45.91	A A
	ATOM	1608 1609	N GLU H GLU	312 312	41.514 42.234	80.792	5.310	1.00 43.09	A
	ATOM ATOM	1610	H GLU CA GLU	312	41.839	82.809	5.871	1.00 42.55	A
70	ATOM	1611	CB GLU	312	43.327	82.954	6.228	1.00 42.74	A
, 0	ATOM	1612	CG GLU	312	44.235	81.829	5.726	1.00 43.79	A
	ATOM	1613	CD GLU	312	44.520	80.800	6.799	1.00 41.47	A
	ATOM	1614	OE1 GLU	312	45.706	80.520	7.057	1.00 42.55	A

	ATOM	1615	OE2 GLU	312	43.559	80.274	7.394	1.00 47.20	A
	ATOM	1616	C GLU	312	41.502	83.747	4.724	1.00 41.45	A
	MOTA	1617	O GLU	312	41.404	84.963	4.901	1.00 41.26	A
	MOTA	1618	N LYS	313	41.317	83.181	3.542	1.00 37.88	A
5	MOTA	1619	H LYS	313	41.394	82.207	3.451	1.00 0.00	A
5	ATOM	1620	CA LYS	313	40.997	83.993	2.380	1.00 36.21	A
	ATOM	1621	CB LYS	313	41.564	83.358	1.116	1.00 33.23	A
	ATOM	1622	CG LYS	313	41.563	84.300	-0.079	1.00 34.65	A
					41.058	83.617	-1.335	1.00 34.03	Ā
10	MOTA	1623	CD LYS	313					
10	MOTA	1624	CE LYS	313	39.861	84.348	-1.905	1.00 29.91 1.00 32.98	A
	MOTA	1625	NZ LYS	313	39.913	84.435	-3.387		A
	MOTA	1626	HZ1 LYS	313	39.928	83.476	-3.790	1.00 0.00	A
	MOTA	1627	HZ2 LYS	313	40.770	84.946	-3.674	1.00 0.00	A
	ATOM	1628	HZ3 LYS	313	39.073	84.941	-3.733	1.00 0.00	A
15	MOTA	1629	C LYS	313	39.515	84.249	2.159	1.00 37.37	A
	MOTA	1630	O LYS	313	39.132	85.357	1.789	1.00 40.91	A
	MOTA	1631	N HIS	314	38.683	83.234	2.385	1.00 32.67	A
	ATOM	1632	H HIS	314	39.036	82.382	2.718	1.00 0.00	A
	MOTA	1633	CA HIS	314	37.250	83.372	2.143	1.00 34.37	A
20	ATOM	1634	CB HIS	314	36.725	82.171	1.343	1.00 33.80	A
	ATOM	1635	CG HIS	314	37.658	81.682	0.280	1.00 29.70	A
	ATOM	1636	CD2 HIS	314	38.910	81.168	0.360	1.00 31.43	A
	ATOM	1637	ND1 HIS	314	37.307	81.631	-1.051	1.00 29.34	A
	ATOM	1638	HD1 HIS	314	36.455	81.936	-1.435	1.00 0.00	A
25	ATOM	1639	CE1 HIS	314	38.295	81.109	-1.747	1.00 29.33	A
25	ATOM	1640	NE2 HIS	314	39.283	80.818	-0.914	1.00 29.14	A
	ATOM	1641	HE2 HIS	314	40.137	80.421	-1.175	1.00 0.00	A
	ATOM	1642	C HIS	314	36.368	83.552	3.372	1.00 35.91	A
				314	35.184	83.860	3.239	1.00 33.31	A
20	MOTA	1643	O HIS			83.340	4.559	1.00 41.02	A
30	ATOM	1644	N PHE	315	36.920				
	ATOM	1645	H PHE	315	37.858	83.065	4.622	1.00 0.00	A
	ATOM	1646	CA PHE	315	36.132	83.512	5.770	1.00 37.19	A
	ATOM	1647	CB PHE	315	36.552	82.493	6.834	1.00 34.33	A
~ ~	MOTA	1648	CG PHE	315	36.038	82.804	8.214	1.00 26.72	A
35	MOTA	1649	CD1 PHE	315	34.684	82.672	8.519	1.00 30.96	A
	MOTA	1650	CD2 PHE	315	36.911	83.225	9.213	1.00 25.93	A
	MOTA	1651	CE1 PHE	315	34.209	82.955	9.800	1.00 23.91	A
	MOTA	1652	CE2 PHE	315	36.451	83.510	10.494	1.00 28.16	A
	MOTA	1653	CZ PHE	315	35.094	83.375	10.788	1.00 29.32	A
40	MOTA	1654	C PHE	315	36.326	84.928	6.299	1.00 38.47	A
	MOTA	1655	O PHE	315	37.449	85.428	6.344	1.00 41.30	A
	MOTA	1656	N PHE	316	35.219	85.561	6.685	1.00 36.02	A
	MOTA	1657	H PHE	316	34.364	85.091	6.602	1.00 0.00	A
	MOTA	1658	CA PHE	316	35.213	86.918	7.223	1.00 32.16	A
45	ATOM	1659	CB PHE	316	34.390	87.856	6.334	1.00 31.62	A
	MOTA	1660	CG PHE	316	35.057	88.194	5.041	1.00 37.01	A
	ATOM	1661	CD1 PHE	316	34.804	87.437	3.898	1.00 29.79	A
	ATOM	1662	CD2 PHE	316	35.979	89.233	4.971	1.00 33.37	A
	ATOM	1663	CE1 PHE	316	35.462	87.705	2.713	1.00 33.51	A
50	ATOM	1664	CE2 PHE	316	36.644	89.511	3.786	1.00 37.63	A
50	ATOM	1665	CZ PHE	316	36.388	88.745	2.653	1.00 37.22	A
	ATOM	1666	C PHE	316	34.577	86.895	8.596	1.00 30.46	A
		1667		316	33.446	86.467	8.751	1.00 28.70	A
	ATOM			317	35.311	87.355	9.591	1.00 28.70	A
55	ATOM	1668	N ASN					1.00 0.00	
55	MOTA	1669	H ASN	317	36.220	87.668	9.414		A
	MOTA	1670	CA ASN	317	34.795	87.405	10.939	1.00 31.72	A
	MOTA	1671	CB ASN	317	35.855	86.917	11.927	1.00 29.33	A
	MOTA	1672	CG ASN	317	35.485	87.205	13.376	1.00 34.11	A
	ATOM	1673	OD1 ASN	317	34.771	88.163	13.667	1.00 38.43	A
60	ATOM	1674	ND2 ASN	317	35.983	86.375	14.289	1.00 32.35	A
	ATOM	1675	HD21 ASN	317	36.553	85.627	14.018	1.00 0.00	A
	MOTA		HD22 ASN	317	35.752	86.550	15.226	1.00 0.00	A
	MOTA	1677	C ASN	317	34.442	88.861	11.197	1.00 33.41	A
	ATOM	1678	O ASN	317	35.325	89.686	11.440	1.00 35.10	A
65	ATOM	1679	N VAL	318	33.152	89.175	11.128	1.00 34.27	A
00	ATOM	1680	H VAL	318	32.498	88.478	10.922	1.00 0.00	A
	ATOM	1681	CA VAL	318	32.689	90.543	11.355	1.00 32.08	A
				318	31.629	90.958	10.301	1.00 32.00	A
	ATOM	1682	CB VAL					1.00 35.04	
70	ATOM	1683	CG1 VAL	318	31.316	92.441	10.426		A
70	ATOM	1684	CG2 VAL	318	32.147	90.660	8.905	1.00 37.95	A
	MOTA	1685	C VAL	318	32.123	90.743	12.762	1.00 25.89	A
	MOTA	1686	O VAL	318	31.293	89.978	13.238	1.00 27.33	A
	MOTA	1687	N SER	319	32.618	91.790	13.406	1.00 23.18	A

	ATOM	1688	H SER	319	33.278	92.338	12.932	1.00 0.00	A
	ATOM	1689	CA SER	319	32.261	92.198	14.757	1.00 22.35	A
	ATOM	1690	CB SER	319	32.972	93.523	15.071	1.00 21.96	A
	ATOM	1691	OG SER	319	33.554	93.517	16.360	1.00 35.71	A
5	ATOM	1692	HG SER	319	34.201	92.809	16.416	1.00 0.00	A
_	ATOM	1693	C SER	319	30.765	92.371	14.988	1.00 22.88	A
	ATOM	1694	O SER	319	30.212	91.854	15.959	1.00 20.95	A
	ATOM	1695	N ASP	320	30.128	93.157	14.125	1.00 25.15	A
	MOTA	1696	H ASP	320	30.632	93.579	13.399	1.00 0.00	A
10	ATOM	1697	CA ASP	320	28.698	93.400	14.232	1.00 23.64	A
	ATOM	1698	CB ASP	320	28.383	94.447	15.334	1.00 30.33	A
	ATOM	1699	CG ASP	320	29.128	95.762	15.156	1.00 27.91	A
	ATOM	1700	OD1 ASP	320	30.369	95.774	15.088	1.00 27.84	A
	ATOM	1701	OD1 ASP	320	28.456	96.799	15.098	1.00 30.37	A
15	ATOM	1702	C ASP	320	28.093	93.791	12.896	1.00 21.79	Ā
13	ATOM	1703	O ASP	320	28.796	93.896	11.893	1.00 21.75	A
	ATOM	1704	N GLU	321	26.781	93.982	12.878	1.00 23.98	A
	ATOM	1705	H GLU	321	26.274	93.890	13.711	1.00 23.30	A
	ATOM	1706	CA GLU	321	26.077	94.326	11.652	1.00 25.27	A
20	ATOM	1707	CB GLU	321	24.565	94.361	11.920	1.00 24.89	A
20	ATOM	1708	CG GLU	321	23.954	92.980	12.285	1.00 16.77	A
	ATOM	1709	CD GLU	321	23.945	92.711	13.793	1.00 16.37	A
	ATOM	1710	OE1 GLU	321	24.672	93.402	14.533	1.00 17.10	A
	ATOM	1711	OE2 GLU	321	23.203	91.815	14.244	1.00 21.60	A
25	ATOM	1712	C GLU	321	26.547	95.638	11.019	1.00 30.46	A
20	ATOM	1713	O GLU	321	26.682	95.733	9.795	1.00 26.52	A
	MOTA	1714	N LEU	322	26.804	96.649	11.847	1.00 30.02	A
	ATOM	1715	H LEU	322	26.680	96.524	12.809	1.00 0.00	A
	ATOM	1716	CA LEU	322	27.266	97.937	11.338	1.00 33.52	A
30	ATOM	1717	CB LEU	322	27.371	98.959	12.480	1.00 24.65	A
-	ATOM	1718	CG LEU	322	26.103	99.774	12.671	1.00 21.95	A
	ATOM	1719	CD1 LEU	322	26.344	100.939	13.616	1.00 25.01	A
	ATOM	1720	CD2 LEU	322	25.653	100.267	11.323	1.00 29.24	A
	ATOM	1721	C LEU	322	28.620	97.824	10.632	1.00 34.43	A
35	ATOM	1722	O LEU	322	28.860	98.497	9.630	1.00 38.95	A
	ATOM	1723	N ALA	323	29.492	96.962	11.142	1.00 35.14	A
	MOTA	1724	H ALA	323	29.236	96.426	11.923	1.00 0.00	A
	ATOM	1725	CA ALA	323	30.826	96.790	10.569	1.00 35.03	A
	ATOM	1726	CB ALA	323	31.768	96.217	11.625	1.00 35.40	A
40	ATOM	1727	C ALA	323	30.880	95.925	9.311	1.00 35.38	A
	ATOM	1728	O ALA	323	31.967	95.531	8.878	1.00 34.45	A
	ATOM	1729	N LEU	324	29.718	95.632	8.730	1.00 33.27	A
	ATOM	1730	H LEU	324	28.891	95.981	9.121	1.00 0.00	A
	ATOM	1731	CA LEU	324	29.638	94.805	7.525	1.00 30.65	A
45	ATOM	1732	CB LEU	324	28.199	94.313	7.308	1.00 28.08	A
	MOTA	1733	CG LEU	324	27.672	92.979	7.874	1.00 27.13	A
	ATOM	1734	CD1 LEU	324	26.168	92.949	7.666	1.00 24.21	A
	MOTA	1735	CD2 LEU	324	28.304	91.773	7.178	1.00 24.75	A
	MOTA	1736	C LEU	324	30.086	95.604	6.296	1.00 37.04	A
50	ATOM	1737	O LEU	324	30.858	95.116	5.471	1.00 31.90	A
	ATOM	1738	N VAL	325	29.601	96.841	6.193	1.00 40.73	A
	MOTA	1739	H VAL	325	29.010	97.174	6.898	1.00 0.00	A
	MOTA	1740	CA VAL	325	29.923	97.711	5.069	1.00 43.41	A
	ATOM	1741	CB VAL	325	29.063	98.996	5.093	1.00 46.34	A
55	ATOM	1742	CG1 VAL	325	27.959	98.896	4.052	1.00 47.62	A
	ATOM	1743	CG2 VAL	325	28.470	99.209	6.474	1.00 51.12	A
	MOTA	1744	C VAL	325	31.395	98.107	4.985	1.00 46.86	A
	ATOM	1745	O VAL	325	31.759	99.028	4.248	1.00 48.27	A
	MOTA	1746	N THR	326	32.241	97.409	5.736	1.00 45.92	A
60	MOTA	1747	H THR	326	31.892	96.697	6.310	1.00 0.00	A
	MOTA	1748	CA THR	326	33.672	97.677	5.729	1.00 48.06	A
	MOTA	1749	CB THR	326	34.180	98.101	7.125	1.00 49.74	A
	MOTA	1750	OG1 THR	326	34.656	96.949	7.830	1.00 53.08	A
. .	MOTA	1751	HG1 THR	326	33.943	96.315	7.928	1.00 0.00	A
65	ATOM	1752	CG2 THR	326	33.063	98.756	7.926	1.00 52.68	A
	ATOM	1753	C THR	326	34.411	96.415	5.313	1.00 47.66	A
	ATOM	1754	O THR	326	35.615	96.290	5.523	1.00 45.71	A
	MOTA	1755	N ILE	327	33.675	95.479	4.725	1.00 50.08	A
	MOTA	1756	H ILE	327	32.720	95.648	4.586	1.00 0.00	A
70	ATOM	1757	CA ILE	327	34.239	94.211	4.278	1.00 49.17	A
	MOTA	1758	CB ILE	327	33.653	93.029	5.118	1.00 46.23	A
	ATOM	1759	CG2 ILE	327	32.917	92.026	4.237	1.00 47.06	A
	ATOM	1760	CG1 ILE	327	34.779	92.352	5.895	1.00 47.16	A

	ATOM	1761	CD1	ILE	327	34.325	91.201	6.768	1.00 44.14	A
	ATOM	1762	С	ILE	327	33.936	94.026	2.793	1.00 50.56	A
	MOTA	1763	0	ILE	327	34.327	93.026	2.179	1.00 50.93	A
_	MOTA	1764	N	VAL	328	33.261	95.020	2.220	1.00 49.92	A
5	MOTA	1765	H	VAL	328	33.014	95.796	2.765	1.00 0.00	A
	MOTA	1766	CA	VAL	328	32.878	94.998	0.812	1.00 53.12 1.00 51.75	A A
	ATOM	1767 1768	CB CG1	VAL	328 328	31.947 30.573	96.172 95.931	0.479 1.085	1.00 51.75	A A
	ATOM ATOM	1769	CG2		328	32.552	97.465	1.000	1.00 52.78	A
10	ATOM	1770	C	VAL	328	34.045	95.043	-0.173	1.00 54.61	A
10	MOTA	1771	Ö	VAL	328	33.974	94.456	-1.252	1.00 53.08	A
	MOTA	1772	N	LYS	329	35.114	95.745	0.190	1.00 56.00	A
	ATOM	1773	Н	LYS	329	35.130	96.192	1.061	1.00 0.00	A
	MOTA	1774	CA	LYS	329	36.262	95.855	-0.699	1.00 54.78	A
15	MOTA	1775	CB	LYS	329	37.185	96.987	-0.239	1.00 59.48	A
	MOTA	1776	CG	LYS	329	37.135	98.218	-1.130	1.00 62.07	A
	MOTA	1777	CD	LYS	329	35.950	99.103	-0.777	1.00 64.89	A
	MOTA	1778	CE	LYS	329	34.651	98.580 97.635	-1.372 -2.509	1.00 68.36 1.00 71.98	A A
20	ATOM	1779 1780	NZ HZ1	LYS	329 329	34.865 35.410	96.815	-2.309 -2.184	1.00 /1.98	A
20	ATOM ATOM	1781	HZ2		329	35.385	98.117	-3.268	1.00 0.00	A
	ATOM	1782		LYS	329	33.943	97.314	-2.871	1.00 0.00	A
	ATOM	1783	C	LYS	329	37.053	94.565	-0.841	1.00 51.87	A
	ATOM	1784	Ō	LYS	329	37.406	94.173	-1.954	1.00 52.46	A
25	MOTA	1785	N	ALA	330	37.320	93.902	0.280	1.00 47.32	A
	MOTA	1786	H	ALA	330	36.995	94.257	1.134	1.00 0.00	A
	ATOM	1787	CA	ALA	330	38.085	92.663	0.264	1.00 46.18	A
	MOTA	1788	CB	ALA	330	38.581	92.348	1.659	1.00 42.75	A
20	ATOM	1789	C	ALA	330	37.299	91.476	-0.287	1.00 47.64	A
30	ATOM	1790 1791	0	ALA	330 331	37.877 35.984	90.567 91.484	-0.876 -0.089	1.00 47.07 1.00 49.91	A A
	MOTA ATOM	1792	N H	LEU LEU	331	35.578	92.237	0.390	1.00 45.51	Ā
	ATOM	1793	CA	LEU	331	35.125	90.398	-0.568	1.00 46.71	A
	ATOM	1794	CB	LEU	331	33.767	90.437	0.145	1.00 41.67	A
35	ATOM	1795	CG	LEU	331	32.981	89.151	0.428	1.00 37.35	A
	ATOM	1796	CD1	LEU	331	31.508	89.445	0.260	1.00 38.69	A
	ATOM	1797		LEU	331	33.395	88.028	-0.493	1.00 32.33	A
	ATOM	1798	С	LEU	331	34.906	90.563	-2.060	1.00 46.57	A
40	ATOM	1799	0	LEU	331	34.938	89.595	-2.817	1.00 44.39	A
40	MOTA	1800	N	GLY	332	34.683 34.682	91.808 92.530	-2.462 -1.800	1.00 47.56 1.00 0.00	A A
	MOTA MOTA	1801 1802	H CA	GLY GLY	332 332	34.443	92.330	-3.853	1.00 48.35	A
	ATOM	1802	CA	GLY	332	35.651	91.998	-4.753	1.00 49.41	A
	MOTA	1804	Ö	GLY	332	35.512	92.028	-5.974	1.00 54.37	A
45	ATOM	1805	N	GLU	333	36.840	91.870	-4.177	1.00 48.21	A
	ATOM	1806	H	GLU	333	36.918	91.872	-3.200	1.00 0.00	A
	MOTA	1807	CA	GLU	333	38.023	91.727	-5.008	1.00 44.83	A
	MOTA	1808	CB	GLU	333	39.113	92.733	-4.593	1.00 44.79	A
50	ATOM	1809	CG	GLU	333	40.169		-3.598	1.00 44.17	A
50	ATOM	1810	CD CD1	GLU	333	40.917	93.463	-2.986	1.00 43.91	A
	MOTA	1811 1812		GLU	333 333	41.368 41.048	93.370 94.499	-1.825 -3.668	1.00 47.51 1.00 36.94	A A
	MOTA MOTA	1813	OE2 C	GLU	333	38.506	90.289	-4.953	1.00 30.94	Ā
	ATOM	1814	0	GLU	333	38.945	89.735	-5.965	1.00 41.97	A
55	ATOM	1815	N	ARG	334	38.387	89.669	-3.784	1.00 35.56	A
	ATOM	1816	H	ARG	334	38.029	90.155	-3.013	1.00 0.00	A
	ATOM	1817	CA	ARG	334	38.789	88.274	-3.638	1.00 41.85	A
	MOTA	1818	CB	ARG	334	38.733	87.861	-2.171	1.00 39.37	A
	ATOM	1819	CG	ARG	334	39.742	88.555	-1.305	1.00 38.56	A
60	MOTA	1820	CD	ARG	334	39.589	88.107	0.118	1.00 37.12	A
	MOTA	1821	NE	ARG	334	40.288	88.994	1.029	1.00 29.46	A
	ATOM	1822	HE	ARG	334	40.713	89.795	0.661 2.338	1.00 0.00 1.00 34.98	A A
	ATOM	1823	CZ NU1	ARG	334 334	40.367 39.786	88.791 87.737	2.338	1.00 34.98	A A
65	MOTA MOTA	1824	HH11	ARG	334 334	39.786	87.104	2.308	1.00 31.07	A
03	ATOM		HH12		334	39.264	87.104	3.865	1.00 0.00	A
	ATOM	1827		ARG	334	41.043	89.634	3.103	1.00 45.11	A
	ATOM		HH21		334	41.486	90.433	2.698	1.00 0.00	A
	ATOM		HH22		334	41.109	89.471	4.088	1.00 0.00	A
70	ATOM	1830	C	ARG	334	37.846	87.374	-4.448	1.00 44.22	A
	MOTA	1831	Õ	ARG	334	38.181	86.231	-4.788	1.00 40.32	A
	ATOM	1832	N	ILE	335	36.662	87.903	-4.748	1.00 44.23	A
	MOTA	1833	H	ILE	335	36.458	88.813	-4.452	1.00 0.00	A

	ATOM	1834	CA IL	E 335	35.663	87.164	-5.504	1.00 45.07	A
	ATOM	1835	CB IL		34.260	87.798	-5.329	1.00 46.64	A
	ATOM	1836	CG2 IL		34.330	89.285	-5.585	1.00 50.46	A
	ATOM	1837	CG1 IL		33.254	87.149	-6.283	1.00 50.93	A
5	ATOM	1838	CD1 IL		33.110	85.645	-6.114	1.00 53.73	A
-	ATOM	1839	C IL		36.045	87.134	-6.977	1.00 41.85	A
	ATOM	1840	O IL		36.246	86.070	-7.547	1.00 44.44	A
	ATOM	1841	N PH		36.159	88.304	-7.591	1.00 38.93	A
	ATOM	1842	H PH		35.995	89.130	-7.093	1.00 0.00	A
10	ATOM	1843	CA PH	E 336	36.526	88.371	-8.994	1.00 40.81	A
	ATOM	1844	CB PH	E 336	36.041	89.684	-9.590	1.00 34.92	A
	ATOM	1845	CG PH	E 336	34.548	89.816	-9.618	1.00 30.97	A
	MOTA	1846	CD1 PH	E 336	33.895	90.694	-8.753	1.00 30.10	A
	MOTA	1847	CD2 PH	E 336	33.792	89.072	-10.513	1.00 29.08	A
15	MOTA	1848	CE1 PH	E 336	32.513	90.821	-8.783	1.00 15.73	A
	ATOM	1849	CE2 PH	E 336	32.409	89.197	-10.548	1.00 19.75	A
	MOTA	1850	CZ PH	E 336	31.772	90.078	-9.677	1.00 20.19	A
	ATOM	1851	C PH	E 336	38.035	88.240	-9.188	1.00 41.18	A
	MOTA	1852	O PH	E 336	38.463	88.145	-10.356	1.00 41.37	A
20	MOTA	1853	OT PH	E 336	38.771	88.233	-8.178	1.00 40.25	A
	ATOM	1854	CB AL	A 145	27.124	80.130	34.005	1.00 39.54	В
	MOTA	1855	C AL		25.323	81.127	32.585	1.00 38.62	В
	MOTA	1856	O AL		24.364	80.726	33.254	1.00 37.41	В
	ATOM	1857	HT1 AL		26.147	82.508	34.837	1.00 0.00	В
25	MOTA	1858	HT2 AL		26.612	83.408	33.474	1.00 0.00	В
	MOTA	1859	N AL		26.822	82.567	34.050	1.00 42.77	В
	MOTA	1860	HT3 AL		27.790	82.642	34.428	1.00 0.00	В
	MOTA	1861	CA AL		26.715	81.343	33.203	1.00 39.62	В
20	MOTA	1862	N GL		25.236	81.388	31.288	1.00 33.32	В
30	ATOM	1863	H GL		26.034	81.700	30.819	1.00 0.00 1.00 31.87	B B
	MOTA	1864	CA GI		24.004	81.230 82.162	30.537 29.354	1.00 31.87 1.00 29.22	В
	MOTA	1865	CB GL		24.024 23.274	83.421	29.543	1.00 29.22	В
	ATOM ATOM	1866 1867	CG GL CD GL		23.274	84.236	28.288	1.00 34.80	В
35	ATOM	1868	OE1 GL		24.442	84.554	27.821	1.00 41.32	В
33	ATOM	1869	NE2 GL		22.200	84.559	27.720	1.00 38.82	В
	ATOM		HE21 GI		21.354	84.268	28.120	1.00 0.00	В
	MOTA	1871	HE22 GL		22.239	85.092	26.900	1.00 0.00	В
	ATOM	1872	C GL		23.862	79.804	30.023	1.00 27.45	В
40	MOTA	1873	O GI	N 146	24.525	79.400	29.079	1.00 22.32	В
	MOTA	1874	N LE	U 147	22.965	79.050	30.622	1.00 27.23	В
	MOTA	1875	H LE	U 147	22.423	79.419	31.350	1.00 0.00	В
	ATOM	1876	CA LE	U 147	22.776	77.675	30.211	1.00 28.64	В
	MOTA	1877	CB LE		23.538	76.760	31.165	1.00 27.79	В
45	MOTA	1878	CG LE		24.667	75.818	30.759	1.00 27.05	В
	ATOM	1879	CD1 LE		25.208	76.106	29.374	1.00 24.90	В
	MOTA	1880	CD2 LE		25.742	75.956	31.812	1.00 24.14	В
	MOTA	1881	C LE		21.302	77.303	30.261	1.00 28.16	В
50	ATOM	1882	O LE		20.576	77.731	31.150	1.00 25.85	В
50	ATOM	1883	N AS		20.872	76.502 76.235	29.297 28.585	1.00 27.82 1.00 0.00	B B
	MOTA	1884	H AS		21.489 19.506	76.233	29.279	1.00 22.46	В
	ATOM ATOM	1885 1886	CA AS		18.920	76.112	27.881	1.00 20.10	В
	ATOM	1887	CG AS		18.424	77.504	27.561	1.00 12.21	В
55	ATOM	1888	OD1 AS		18.422	77.881	26.375	1.00 14.78	В
33	ATOM	1889	OD2 AS		18.040	78.216	28.494	1.00 13.58	В
	ATOM	1890	C AS		19.703	74.568	29.680	1.00 21.73	В
	ATOM	1891	O AS		20.389	73.822	28.986	1.00 23.66	В
	ATOM	1892	N II		19.138	74.190	30.822	1.00 17.82	В
60	ATOM	1893	H II		18.603	74.833	31.327	1.00 0.00	В
	ATOM	1894	CA II		19.296	72.838	31.332	1.00 14.75	В
	ATOM	1895	CB II		19.901	72.847	32.752	1.00 15.94	В
	ATOM	1896	CG2 II	E 149	20.143	71.431	33.218	1.00 8.68	В
	ATOM	1897	CG1 II	E 149	21.192	73.685	32.788	1.00 13.92	В
65	MOTA	1898	CD1 II	E 149	21.672	73.954	34.217	1.00 7.01	В
	ATOM	1899	C II		17.977	72.076	31.427	1.00 19.66	В
	MOTA	1900	O II	E 149	16.969	72.581	31.935	1.00 17.11	В
	MOTA	1901	N VA		18.008	70.843	30.959	1.00 15.39	В
	MOTA	1902	H VA		18.833	70.497	30.565	1.00 0.00	В
70	MOTA	1903	CA VA		16.847	69.992	31.017	1.00 14.24	В
	ATOM	1904	CB VA		16.399	69.565	29.612	1.00 18.62	В
	ATOM	1905	CG1 VA		15.323	68.478	29.707	1.00 11.48	В
	ATOM	1906	CG2 V	L 150	15.861	70.773	28.869	1.00 14.10	В

	ATOM	1907	С	VAL	150	17.193	68.760	31.837	1.00 13.47	В
	MOTA	1908	0	VAL	150	18.166	68.050	31.558	1.00 16.28	В
	MOTA	1909	N	ILE	151	16.390	68.534	32.864	1.00 13.89	В
	MOTA	1910	H	ILE	151	15.666	69.164	33.048	1.00 0.00	В
5	ATOM	1911	CA	ILE	151	16.554	67.384	33.725	1.00 12.32	B
•	ATOM	1912	CB	ILE	151	16.146	67.712	35.160	1.00 8.15	В
	ATOM	1913	CG2		151	16.359	66.524	36.033	1.00 4.81	В
	MOTA	1914	CG1	ILE	151	16.907	68.934	35.668	1.00 15.50	В
	ATOM	1915	CD1	ILE	151	16.390	69.451	37.017	1.00 15.50	В
10	ATOM	1916		ILE	151	15.625				В
10			C				66.309	33.174	1.00 12.57	
	ATOM	1917	0	ILE	151	14.448	66.548	32.988	1.00 15.95	В
	MOTA	1918	N	VAL	152	16.184	65.141	32.869	1.00 16.00	В
	MOTA	1919	H	VAL	152	17.150	65.032	32.993	1.00 0.00	В
	ATOM	1920	CA	VAL	152	15.410	64.009	32.354	1.00 14.98	В
15	MOTA	1921	CB	VAL	152	16.082	63.397	31.106	1.00 15.24	В
	MOTA	1922	CG1	VAL	152	15.209	62.279	30.531	1.00 10.15	В
	MOTA	1923	CG2	VAL	152	16.313	64.500	30.056	1.00 7.29	В
	MOTA	1924	C	VAL	152	15.438	63.052	33.532	1.00 19.19	В
	ATOM	1925	0	VAL	152	16.459	62.414	33.835	1.00 16.07	В
20	ATOM	1926	N	LEU	153	14.297	62.976	34.200	1.00 15.97	В
	MOTA	1927	H	LEU	153	13.519	63.456	33.851	1.00 0.00	В
	MOTA	1928	CA	LEU	153	14.150	62.211	35.414	1.00 13.99	В
	ATOM	1929	СВ	LEU	153	13.530	63.131	36.474	1.00 15.97	В
	ATOM	1930	CG	LEU	153	12.764	62.553	37.658	1.00 17.17	В
25	ATOM	1931		LEU	153	13.616	61.536	38.376	1.00 23.41	В
	ATOM	1932	CD2	LEU	153	12.367	63.672	38.599	1.00 15.08	В
	ATOM	1933	C	LEU	153	13.362	60.924	35.309	1.00 17.91	В
	ATOM	1934	0	LEU	153	12.214	60.924		1.00 17.91	В
		1935						34.870		
30	MOTA		N	ASP	154	14.002	59.832	35.723	1.00 19.62	В
30	ATOM	1936	H	ASP	154	14.918	59.927	36.051	1.00 0.00	В
	ATOM	1937	CA	ASP	154	13.397	58.504	35.709	1.00 19.43	В
	ATOM	1938	СВ	ASP	154	14.461	57.432	35.966	1.00 17.84	В
	MOTA	1939	CG	ASP	154	13.912	56.021	35.831	1.00 27.80	В
a -	ATOM	1940		ASP	154	12.725	55.871	35.461	1.00 28.40	В
35	ATOM	1941		ASP	154	14.667	55.059	36.094	1.00 28.69	В
	MOTA	1942	C	ASP	154	12.351	58.419	36.804	1.00 18.93	В
	MOTA	1943	0	ASP	154	12.698	58.429	37.993	1.00 15.86	В
	MOTA	1944	N	GLY	155	11.080	58.328	36.407	1.00 18.75	В
	ATOM	1945	H	GLY	155	10.873	58.317	35.453	1.00 0.00	В
40	MOTA	1946	CA	GLY	155	10.012	58.247	37.382	1.00 15.14	В
	MOTA	1947	С	GLY	155	9.479	56.842	37.537	1.00 19.82	В
	ATOM	1948	0	GLY	155	8.308	56.668	37.882	1.00 14.58	В
	ATOM	1949	N	SER	156	10.342	55.854	37.280	1.00 18.73	В
	ATOM	1950	Н	SER	156	11.250	56.096	37.000	1.00 0.00	В
45	ATOM	1951	CA	SER	156	10.008	54.434	37.396	1.00 17.78	В
,,,	MOTA	1952	CB	SER	156	11.217	53.559	36.993	1.00 23.82	В
	ATOM	1953	OG	SER	156	12.195	53.479	38.040	1.00 23.02	В
	ATOM	1954	HG	SER	156	12.517	54.359			
				SER				38.245	1.00 0.00	В
50	MOTA	1955	C		156	9.581	54.127	38.826	1.00 14.28	В
50	ATOM	1956	0	SER	156	9.531	55.014	39.675	1.00 16.84	В
	MOTA	1957	N	ASN	157	9.298	52.866	39.113	1.00 15.15	В
	ATOM	1958	H	ASN	157	9.411	52.173	38.428	1.00 0.00	В
	MOTA	1959	CA	ASN	157	8.820	52.507	40.443	1.00 13.34	В
	MOTA	1960	CB	ASN	157	7.869	51.305	40.353	1.00 16.24	В
55	MOTA	1961	CG	ASN	157	6.634	51.580	39.529	1.00 20.72	В
	MOTA	1962	OD1	ASN	157	5.997	50.643	39.036	1.00 27.20	В
	ATOM	1963	ND2	ASN	157	6.273	52.859	39.374	1.00 18.41	В
	ATOM	1964	HD21	ASN	157	6.805	53.570	39.787	1.00 0.00	В
	ATOM		HD22		157	5.473	53.041	38.841	1.00 0.00	В
60	ATOM	1966	C	ASN	157	9.865	52.190	41.511	1.00 16.46	В
00	ATOM	1967	Õ	ASN	157	9.517	52.117	42.693	1.00 20.71	В
	ATOM	1968			158			41.132		
	ATOM	1969	N H	SER SER	158	11.127 11.384	52.030 52.156	40.196	1.00 15.18 1.00 0.00	B B
65	MOTA	1970	CA	SER	158	12.151	51.654	42.127	1.00 16.23	В
65	MOTA	1971	CB	SER	158	13.161	50.690	41.487	1.00 13.88	В
	MOTA	1972	OG	SER	158	13.678	51.221	40.296	1.00 15.34	В
	ATOM	1973	HG	SER	158	14.121	52.052	40.478	1.00 0.00	В
	MOTA	1974	С	SER	158	12.911	52.713	42.948	1.00 17.21	В
	ATOM	1975	0	SER	158	13.395	52.397	44.046	1.00 16.37	В
70	ATOM	1976	N	ILE	159	13.061	53.938	42.446	1.00 22.58	В
	ATOM	1977	H	ILE	159	12.726	54.145	41.550	1.00 0.00	В
	ATOM	1978	CA	ILE	159	13.733	54.975	43.241	1.00 22.49	В
	ATOM	1979	CB	ILE	159	13.674	56.360	42.566	1.00 24.48	В
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	MOTA	1980	CG2 ILE	159	14.718	57.288	43.176	1.00 24.15	В
	ATOM	1981	CG1 ILE	159	13.812	56.209	41.057	1.00 32.59	В
	ATOM	1982	CD1 ILE	159	12.470	56.393	40.303	1.00 20.06	В
_	ATOM	1983	C ILE	159	12.778	55.028	44.407	1.00 24.33	В
5	MOTA	1984	O ILE	159	11.724	55.618	44.285	1.00 17.55	В
	MOTA	1985	N TYR	160	13.099	54.420	45.541	1.00 32.15	В
	MOTA	1986	H TYR	160	13.965	53.980	45.664	1.00 0.00	В
	ATOM	1987	CA TYR	160	12.097	54.447	46.585	1.00 31.82	В
10	ATOM	1988	CB TYR	160	12.267	53.324	47.597	1.00 26.96	В
10	MOTA	1989	CG TYR	160	11.253	53.490	48.725	1.00 25.65	В
	ATOM	1990	CD1 TYR	160	9.926	53.897	48.457	1.00 24.26	В
	MOTA	1991	CE1 TYR	160	9.022	54.114	49.484	1.00 18.27	В
	ATOM	1992	CD2 TYR	160	11.623	53.306	50.041	1.00 20.35	В
15	ATOM	1993	CE2 TYR	160	10.729	53.519	51.072	1.00 22.84 1.00 14.51	В
13	ATOM ATOM	1994	CZ TYR OH TYR	160 160	9.441 8.598	53.917 54.099	50.791 51.840	1.00 14.51 1.00 23.91	B B
	ATOM	1995 1996	HH TYR	160	9.063	53.916	52.661	1.00 23.91	В
	ATOM	1997	C TYR	160	11.880	55.733	47.356	1.00 0.00	В
	ATOM	1998	O TYR	160	10.799	56.335	47.262	1.00 37.40	В
20	ATOM	1999	N PRO	161	12.855	56.167	48.158	1.00 31.96	В
20	ATOM	2000	CD PRO	161	14.215	55.743	48.529	1.00 22.44	В
	ATOM	2001	CA PRO	161	12.466	57.408	48.822	1.00 28.82	В
	ATOM	2002	CB PRO	161	13.575	57.639	49.856	1.00 31.11	В
	ATOM	2003	CG PRO	161	14.337	56.332	49.902	1.00 29.58	В
25	MOTA	2004	C PRO	161	12.414	58.464	47.729	1.00 23.46	В
	MOTA	2005	O PRO	161	13.452	58.977	47.298	1.00 18.53	В
	ATOM	2006	N TRP	162	11.204	58.741	47.246	1.00 23.04	В
	MOTA	2007	H TRP	162	10.424	58.275	47.612	1.00 0.00	В
••	MOTA	2008	CA TRP	162	11.019	59.719	46.184	1.00 20.85	В
30	MOTA	2009	CB TRP	162	9.565	59.743	45.720	1.00 24.84	В
	ATOM	2010	CG TRP	162	9.344	60.700	44.583	1.00 15.34	В
	MOTA	2011	CD2 TRP	162	9.779	60.531	43.229	1.00 17.68	В
	ATOM	2012	CE2 TRP	162	9.364	61.679	42.516	1.00 13.50	В
25	ATOM	2013	CE3 TRP	162	10.474	59.531	42.545	1.00 12.30	В
35	ATOM	2014	CD1 TRP	162	8.704	61.897	44.640	1.00 12.84 1.00 14.37	В
	MOTA	2015 2016	NE1 TRP HE1 TRP	162 162	8.712 8.323	62.491 63.357	43.399 43.175	1.00 14.37 1.00 0.00	B B
	MOTA MOTA	2016	CZ2 TRP	162	9.625	61.847	41.158	1.00 14.57	В
	ATOM	2017	CZZ TRP	162	10.732	59.699	41.198	1.00 14.57	В
40	ATOM	2019	CH2 TRP	162	10.307	60.853	40.517	1.00 10.94	В
10	ATOM	2020	C TRP	162	11.431	61.091	46.692	1.00 21.81	В
	ATOM	2021	O TRP	162	12.010	61.884	45.969	1.00 16.84	В
	ATOM	2022	N GLU	163	11.135	61.363	47.952	1.00 25.91	В
	MOTA	2023	H GLU	163	10.665	60.699	48.497	1.00 0.00	В
45	MOTA	2024	CA GLU	163	11.506	62.644	48.524	1.00 33.12	В
	MOTA	2025	CB GLU	163	11.066	62.721	49.993	1.00 36.71	В
	MOTA	2026	CG GLU	163	11.646	61.637	50.888	1.00 47.66	В
	MOTA	2027	CD GLU	163	10.848	61.447	52.173	1.00 55.21	В
~a	MOTA	2028	OE1 GLU	163	11.446	61.522	53.270	1.00 57.76	В
50	ATOM	2029	OE2 GLU	163	9.620	61.221	52.088	1.00 59.92	В
	MOTA	2030	C GLU	163	13.013	62.848	48.418	1.00 31.56	В
	ATOM	2031	O GLU	163	13.496	63.980	48.447	1.00 28.76	В
	ATOM	2032	N SER	164	13.748	61.747	48.270	1.00 31.75	В
55	MOTA	2033	H SER	164 164	13.295 15.213	60.879 61.788	48.215 48.181	1.00 0.00 1.00 31.88	B B
33	MOTA MOTA	2034 2035	CA SER CB SER	164	15.795	60.399	48.470	1.00 31.88	В
	ATOM	2035	OG SER	164	15.795	60.221	49.864	1.00 31.21	В
	ATOM	2037	HG SER	164	16.606	60.887	50.185	1.00 0.00	В
	MOTA	2038	C SER	164	15.751	62.289	46.845	1.00 29.05	В
60	MOTA	2039	O SER	164	16.820	62.890	46.782	1.00 29.91	В
00	ATOM	2040	N VAL	165	15.030	61.998	45.772	1.00 22.58	В
	ATOM	2041	H VAL	165	14.209	61.472	45.867	1.00 0.00	B
	MOTA	2042	CA VAL	165	15.443	62.454	44.462	1.00 26.86	В
	MOTA	2043	CB VAL	165	14.761	61.610	43.333	1.00 30.69	В
65	MOTA	2044	CG1 VAL	165	13.791	62.460	42.533	1.00 27.74	В
	ATOM	2045	CG2 VAL	165	15.825	61.022	42.411	1.00 33.05	В
	MOTA	2046	C VAL	165	15.029	63.926	44.386	1.00 27.11	В
	MOTA	2047	O VAL	165	15.746	64.762	43.843	1.00 23.73	В
	ATOM	2048	N ILE	166	13.860	64.238	44.936	1.00 26.45	В
70	ATOM	2049	H ILE	166	13.308	63.536	45.338	1.00 0.00	В
	ATOM	2050	CA ILE	166	13.388	65.618	44.943	1.00 21.89	В
	MOTA	2051	CB ILE	166	11.931	65.706	45.407	1.00 24.39	В
	MOTA	2052	CG2 ILE	166	11.469	67.157	45.379	1.00 22.62	В

	ATOM	2053	CG1	ILE	166	11.047	64.822	44.505	1.00 28.66	В
	MOTA	2054	CD1	ILE	166	11.350	64.929	42.999	1.00 20.77	В
	ATOM	2055	C	ILE	166	14.283	66.471	45.842	1.00 18.82	В
_	MOTA	2056	0	ILE	166	14.476	67.651	45.577	1.00 18.46	В
5	MOTA	2057	N	ALA	167	14.828	65.882	46.904	1.00 12.61	В
	ATOM	2058	H	ALA	167	14.615	64.949	47.105	1.00 0.00	В
	ATOM	2059	CA	ALA	167	15.750	66.625	47.768	1.00 14.63	В
	ATOM	2060	CB	ALA	167	16.054	65.836	49.048 46.961	1.00 15.91 1.00 15.69	B B
10	ATOM	2061 2062	C	ALA	167 167	17.045 17.647	66.847 67.906	47.036	1.00 13.09	В
10	ATOM ATOM	2063	O N	ALA PHE	168	17.450	65.842	46.181	1.00 14.44	В
	ATOM	2064	H	PHE	168	16.926	65.014	46.166	1.00 0.00	В
	ATOM	2065	CA	PHE	168	18.656	65.936	45.346	1.00 14.68	В
	ATOM	2066	CB	PHE	168	18.878	64.608	44.615	1.00 12.59	В
15	ATOM	2067	CG	PHE	168	19.832	64.680	43.444	1.00 20.18	В
	MOTA	2068	CD1		168	19.355	64.609	42.134	1.00 17.37	В
	MOTA	2069	CD2	PHE	168	21.211	64.759	43.645	1.00 16.50	В
	MOTA	2070	CE1	PHE	168	20.226	64.606	41.047	1.00 18.84	В
	MOTA	2071	CE2	PHE	168	22.092	64.760	42.564	1.00 14.29	В
20	MOTA	2072	CZ	PHE	168	21.599	64.680	41.263	1.00 15.75	В
	MOTA	2073	C	PHE	168	18.501	67.066	44.336	1.00 17.90	В
	MOTA	2074	0	PHE	168	19.420	67.847	44.114	1.00 19.14	В
	ATOM	2075	N	LEU	169	17.328	67.148	43.719 43.929	1.00 18.88 1.00 0.00	B B
25	ATOM ATOM	2076 2077	H CA	LEU LEU	169 169	16.627 17.068	66.494 68.187	42.745	1.00 16.96	В
23	ATOM	2078	CB	LEU	169	15.779	67.885	41.984	1.00 19.20	В
	ATOM	2079	CG	LEU	169	15.843	66.692	41.022	1.00 14.34	В
	ATOM	2080	CD1		169	14.476	66.482	40.428	1.00 16.09	В
	MOTA	2081	CD2		169	16.864	66.920	39.926	1.00 14.01	В
30	MOTA	2082	C	LEU	169	16.977	69.558	43.407	1.00 19.79	В
	MOTA	2083	0	LEU	169	17.443	70.547	42.844	1.00 26.07	В
	MOTA	2084	N	ASN	170	16.377	69.617	44.593	1.00 21.05	В
	ATOM	2085	H	ASN	170	16.011	68.795	44.984	1.00 0.00	В
25	MOTA	2086	CA	ASN	170	16.249	70.875	45.332	1.00 22.16	В
35	ATOM	2087	CB	ASN	170	15.473	70.655	46.630 47.611	1.00 27.93 1.00 32.39	B B
	ATOM	2088 2089	CG OD1	ASN	170 170	15.617 16.661	71.834 72.003	48.257	1.00 32.39	В
	ATOM ATOM	2099	ND2		170	14.572	72.643	47.718	1.00 25.22	В
	ATOM	2091	HD21		170	13.765	72.473	47.191	1.00 0.00	B
40	ATOM	2092	HD22		170	14.648	73.396	48.340	1.00 0.00	В
	ATOM	2093	C	ASN	170	17.609	71.498	45.668	1.00 24.44	В
	MOTA	2094	0	ASN	170	17.832	72.689	45.426	1.00 24.64	В
	MOTA	2095	N	ASP	171	18.509	70.684	46.223	1.00 22.99	В
	MOTA	2096	H	ASP	171	18.262	69.748	46.378	1.00 0.00	В
45	MOTA	2097	CA	ASP	171	19.855	71.128	46.610	1.00 20.63	В
	MOTA	2098	CB	ASP	171	20.593	70.014 69.585	47.360 48.619	1.00 20.85 1.00 29.81	B B
	ATOM	2099 2100	CG OD1	ASP	171 171	19.869 19.031	70.371	49.124	1.00 25.40	В
	MOTA MOTA	2101	OD2		171	20.131	68.465		1.00 29.96	В
50	ATOM	2102	C	ASP	171	20.685	71.544	45.416	1.00 22.06	В
	ATOM	2103	Õ	ASP	171	21.537	72.431	45.519	1.00 26.11	В
	MOTA	2104	N	LEU	172	20.447	70.876	44.292	1.00 19.55	В
	ATOM	2105	H	LEU	172	19.776	70.165	44.301	1.00 0.00	В
	MOTA	2106	CA	LEU	172	21.146	71.162	43.050	1.00 20.55	В
55	MOTA	2107	CB	LEU	172	20.866	70.044	42.056	1.00 25.39	В
	ATOM	2108	CG	LEU	172	21.889	69.703	40.978	1.00 23.87	В
	ATOM	2109		LEU	172	21.174	68.935	39.874	1.00 26.42	В
	ATOM	2110		LEU	172	22.543	70.947	40.435	1.00 32.73 1.00 20.44	B B
60	MOTA	2111 2112	C	LEU	172 172	20.697 21.518	72.484 73.313	42.428 42.014	1.00 20.44	В
00	ATOM ATOM	2112	O N	LEU LEU	173	19.383	72.646	42.343	1.00 21.12	В
	ATOM	2114	H	LEU	173	18.803	71.938	42.694	1.00 0.00	В
	ATOM	2115	CA	LEU	173	18.761	73.826	41.755	1.00 21.30	В
	ATOM	2116	CB	LEU	173	17.248	73.588	41.573	1.00 20.45	В
65	ATOM	2117	CG	LEU	173	16.850	72.431	40.649	1.00 20.49	В
	ATOM	2118	CD1	LEU	173	15.418	72.019	40.926	1.00 22.02	В
	MOTA	2119		LEU	173	16.999	72.855	39.197	1.00 25.70	В
	MOTA	2120	C	LEU	173	18.966	75.081	42.583	1.00 18.86	В
70	ATOM	2121	0	LEU	173	19.266	76.146	42.046	1.00 16.41	В
70	ATOM	2122	N	LYS	174	18.799	74.953	43.894	1.00 21.55	В
	ATOM	2123	H	LYS	174 174	18.581	74.076	44.275 44.765	1.00 0.00 1.00 23.18	B B
	MOTA	2124	CA	LYS	174 174	18.943 18.648	76.107 75.717	44.765	1.00 23.18	В
	ATOM	2125	CB	LYS	1,4	T0.0#0	13.111	±0.210	1.00 40.40	נו

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	ATOM	2126	CG	LYS	174	19.830	75.202	47.026	1.00 29.25 1.00 28.29	B B
	ATOM	2127	CD	LYS	174 174	19.306 20.399	74.550 73.886	48.304 49.111	1.00 28.29	В
	ATOM ATOM	2128 2129	CE NZ	LYS LYS	174	19.815	73.374	50.359	1.00 15.54	B
5	ATOM	2130	HZ1		174	19.069	72.682	50.333	1.00 0.00	В
J	ATOM	2131	HZ2	LYS	174	19.398	74.161	50.895	1.00 0.00	B
	ATOM	2132	HZ3		174	20.551	72.915	50.926	1.00 0.00	В
	ATOM	2133	C	LYS	174	20.288	76.818	44.661	1.00 22.91	В
	ATOM	2134	0	LYS	174	20.420	77.948	45.110	1.00 22.73	В
10	ATOM	2135	N	ALA	175	21.279	76.173	44.059	1.00 23.45	В
	MOTA	2136	H	ALA	175	21.134	75.270	43.705	1.00 0.00	В
	MOTA	2137	CA	ALA	175	22.589	76.807	43.929	1.00 26.35	В
	MOTA	2138	CB	ALA	175	23.694	75.755	43.981	1.00 22.79	В
	MOTA	2139	C	ALA	175	22.730	77.649	42.658	1.00 26.76	В
15	ATOM	2140	0	ALA	175	23.651	78.460	42.539	1.00 29.91	В
	ATOM	2141	N	MET	176	21.821	77.470	41.710	1.00 25.18	B B
	ATOM	2142	H	MET	176	21.098	76.822 78.226	41.845 40.467	1.00 0.00 1.00 24.53	В
	MOTA	2143 2144	CA	MET	176 176	21.888 21.253	77.418	39.336	1.00 24.33	В
20	MOTA MOTA	2144	CB CG	${f MET}$	176	21.779	76.003	39.265	1.00 22.20	В
20	ATOM	2146	SD	MET	176	20.923	74.945	38.090	1.00 24.68	В
	ATOM	2147	CE	MET	176	22.045	73.494	38.136	1.00 19.10	В
	ATOM	2148	C	MET	176	21.227	79.595	40.548	1.00 24.31	В
	ATOM	2149	Õ	MET	176	20.618	79.958	41.554	1.00 31.33	В
25	ATOM	2150	N	ASP	177	21.365	80.354	39.469	1.00 24.61	В
	MOTA	2151	H	ASP	177	21.887	80.004	38.717	1.00 0.00	В
	MOTA	2152	CA	ASP	177	20.777	81.678	39.355	1.00 24.49	В
	MOTA	2153	CB	ASP	177	21.848	82.729	39.075	1.00 30.14	В
	MOTA	2154	CG	ASP	177	21.348	84.131	39.296	1.00 33.29	В
30	MOTA	2155		ASP	177	22.134	84.977	39.767	1.00 37.03	В
	ATOM	2156		ASP	177	20.160	84.388	39.000	1.00 42.39	В
	ATOM	2157	C	ASP	177	19.881	81.525 81.519	38.153 37.017	1.00 21.41 1.00 20.00	B B
	ATOM ATOM	2158 2159	O N	ASP ILE	177 178	20.365 18.581	81.390	38.407	1.00 20.00	В
35	ATOM	2160	H	ILE	178	18.270	81.436	39.336	1.00 0.00	B
33	ATOM	2161	CA	ILE	178	17.610	81.169	37.350	1.00 20.35	В
	MOTA	2162	CB	ILE	178	16.525	80.193	37.788	1.00 24.17	В
	MOTA	2163	CG2	ILE	178	15.745	79.714	36.559	1.00 26.64	В
	MOTA	2164	CG1	ILE	178	17.154	79.024	38.560	1.00 26.03	В
40	MOTA	2165	CD1	ILE	178	17.407	77.790	37.734	1.00 21.54	В
	ATOM	2166	С	ILE	178	16.916	82.410	36.840	1.00 21.48	В
	ATOM	2167	0	ILE	178	16.327	83.164	37.598	1.00 13.16	В
	ATOM	2168	N	GLY	179	16.977	82.586	35.527	1.00 23.27	B B
45	MOTA	2169	H	GLY	179 179	17.457 16.346	81.937 83.727	34.974 34.904	1.00 0.00 1.00 24.96	В
43	MOTA MOTA	2170 2171	CA C	GLY GLY	179	16.546	83.775	33.414	1.00 25.44	В
	ATOM	2172	Ö	GLY	179	17.505	83.087	32.906	1.00 18.86	В
	ATOM	2173	N	PRO	180	15.844	84.583	32.685	1.00 27.50	В
	ATOM	2174	CD	PRO	180	14.721	85.395	33.194	1.00 23.45	В
50	ATOM	2175	CA	PRO	180	16.006	84.725	31.240	1.00 25.34	В
	ATOM	2176	CB	PRO	180	14.991	85.817	30.881	1.00 28.96	В
	ATOM	2177	CG	PRO	180	13.934	85.689	31.956	1.00 21.85	В
	ATOM	2178	C	PRO	180	17.434	85.104	30.859	1.00 21.40	В
	ATOM	2179	0	PRO	180	17.889	84.771	29.780	1.00 17.19	В
55	ATOM	2180	N	LYS	181	18.126	85.779	31.773	1.00 22.62	В
	MOTA	2181	H	LYS	181	17.698	85.977	32.631 31.555	1.00 0.00 1.00 22.16	B B
	MOTA MOTA	2182 2183	CA CB	LYS LYS	181 181	19.493 19.628	86.244 87.682	32.050	1.00 27.02	В
	ATOM	2183	CG	LYS	181	18.711	88.652	31.352	1.00 32.06	В
60	ATOM	2185	CD	LYS	181	19.157	88.876	29.925	1.00 29.94	В
00	ATOM	2186	CE	LYS	181	19.909	90.182	29.788	1.00 34.20	В
	ATOM	2187	NZ	LYS	181	20.167	90.503	28.357	1.00 34.68	В
	ATOM	2188		LYS	181	19.264	90.584	27.850	1.00 0.00	В
	MOTA	2189	HZ2	LYS	181	20.738	89.744	27.930	1.00 0.00	В
65	MOTA	2190	HZ3	LYS	181	20.685	91.402	28.291	1.00 0.00	В
	MOTA	2191	С	LYS	181	20.585	85.395	32.206	1.00 22.21	В
	MOTA	2192	0	LYS	181	21.764	85.684	32.044	1.00 20.87	В
	MOTA	2193	N	GLN	182	20.194	84.379	32.958	1.00 23.88	В
7 0	MOTA	2194	H	GLN	182	19.235	84.212	33.077	1.00 0.00	В
70	MOTA	2195	CA	GLN	182	21.156	83.498	33.616	1.00 27.46	B
	ATOM	2196	CB	GLN	182	21.004 20.735	83.585 84.991	35.136 35.668	1.00 31.07 1.00 38.02	B B
	MOTA MOTA	2197 2198	CG CD	GLN GLN	182 182	21.886	85.950	35.421	1.00 38.02	В
	V TOIL	4120	CI)	CILIN	# O Z	21.000	55.550	JJ. 121	12.00	

	ATOM	2199 O	E1 GLN	182	21.708	87.167	35.435	1.00 44.04	В
	MOTA	2200 N	E2 GLN	182	23.072	85.406	35.190	1.00 43.73	В
	ATOM	2201 HE	21 GLN	182	23.171	84.431	35.184	1.00 0.00	В
	ATOM	2202 HE		182	23.824	86.012	35.029	1.00 0.00	В
5	ATOM	2203 C		182	20.880	82.076	33.135	1.00 26.08	В
J	ATOM	2204 0		182	20.806	81.835	31.926	1.00 22.28	В
	ATOM	2205 N		183	20.732	81.132	34.058	1.00 18.41	В
	ATOM	2206 H		183	20.823	81.350	35.010	1.00 0.00	В
	ATOM	2207 C.		183	20.439	79.778	33.640	1.00 21.94	В
10	ATOM	2208 C		183	21.165	78.705	34.513	1.00 27.45	В
10	ATOM		G1 THR	183	20.203	77.844	35.121	1.00 36.22	В
	ATOM		G1 THR	183	19.691	77.402	34.438	1.00 0.00	В
	ATOM		G2 THR	183	22.028	79.347	35.563	1.00 20.20	В
				183	18.936	79.531	33.646	1.00 20.20	В
15	ATOM						34.360	1.00 18.10	В
15	ATOM	2213 0		183	18.178	80.193			В
	ATOM	2214 N		184	18.509	78.607	32.797	1.00 15.96	
	ATOM	2215 H		184	19.158	78.154	32.225	1.00 0.00	В
	ATOM	2216 C		184	17.107	78.245	32.693	1.00 16.73	В
20	ATOM	2217 C		184	16.564	78.600	31.305	1.00 20.17	В
20	ATOM	2218 C		184	16.243	80.079	31.118	1.00 15.38	В
	MOTA	2219 C		184	15.181	80.307	30.063	1.00 14.63	В
	MOTA		E1 GLN	184	14.165	80.926	30.326	1.00 17.14	В
	MOTA		E2 GLN	184	15.416	79.801	28.859	1.00 17.84	В
	MOTA	2222 HE		184	16.245	79.305	28.694	1.00 0.00	В
25	MOTA		22 GLN	184	14.737	79.942	28.172	1.00 0.00	В
	MOTA	2224 C		184	17.023	76.740	32.905	1.00 16.49	В
	MOTA	2225 O	GLN	184	17.841	75.981	32.377	1.00 18.75	В
	MOTA	2226 N	VAL	185	16.043	76.311	33.685	1.00 19.05	В
	MOTA	2227 H	VAL	185	15.437	76.962	34.095	1.00 0.00	В
30	ATOM	2228 C	A VAL	185	15.849	74.895	33.943	1.00 15.68	В
	ATOM	2229 C	B VAL	185	16.145	74.549	35.437	1.00 15.74	В
	MOTA	2230 C	G1 VAL	185	15.608	73.149	35.795	1.00 14.91	В
	ATOM	2231 C	G2 VAL	185	17.641	74.610	35.686	1.00 13.27	В
	MOTA	2232 C	VAL	185	14.411	74.506	33.614	1.00 16.98	В
35	MOTA	2233 O	VAL	185	13.458	75.230	33.923	1.00 17.38	В
	MOTA	2234 N	GLY	186	14.296	73.364	32.948	1.00 20.72	В
	MOTA	2235 н	GLY	186	15.109	72.886	32.688	1.00 0.00	В
	MOTA	2236 C	A GLY	186	13.016	72.794	32.585	1.00 14.37	В
	MOTA	2237 C	GLY	186	13.134	71.359	33.073	1.00 16.88	В
40	ATOM	2238 O	GLY	186	14.252	70.825	33.165	1.00 10.74	В
	ATOM	2239 N	ILE	187	12.020	70.721	33.409	1.00 12.53	В
	ATOM	2240 H	ILE	187	11.152	71.172	33.346	1.00 0.00	В
	ATOM	2241 C	A ILE	187	12.104	69.344	33.869	1.00 14.75	В
	ATOM	2242 C	B ILE	187	11.766	69.193	35.366	1.00 9.81	В
45	ATOM	2243 C	G2 ILE	187	11.733	67.712	35.742	1.00 10.78	В
	ATOM	2244 C	G1 ILE	187	12.818	69.901	36.207	1.00 10.95	В
	MOTA	2245 C	D1 ILE	187	12.517	69.886	37.678	1.00 7.68	В
	MOTA	2246 C	ILE	187	11.191	68.422	33.105	1.00 12.90	В
	MOTA	2247 0	ILE	187	10.022	68.699	32.908	1.00 14.75	В
50	ATOM	2248 N		188	11.756	67.299	32.696	1.00 20.73	В
	MOTA	2249 н		188	12.703	67.157	32.892	1.00 0.00	В
	ATOM		'A VAL	188	11.040	66.267	31.970	1.00 18.34	В
	ATOM		B VAL	188	11.748	65.977	30.620	1.00 23.42	В
	ATOM		G1 VAL	188	11.363	64.610	30.107	1.00 17.83	В
55	ATOM		G2 VAL	188	11.432	67.075	29.602	1.00 16.65	В
	ATOM	2254 C		188	11.077	64.992	32.831	1.00 22.16	В
	ATOM	2255 O		188	12.126	64.630	33.373	1.00 12.92	В
	ATOM	2256 N		189	9.929	64.338	33.014	1.00 19.46	В
	ATOM	2257 H		189	9.092	64.704	32.661	1.00 0.00	В
60	ATOM		A GLN	189	9.938	63.076	33.742	1.00 20.85	В
00	ATOM		B GLN	189	9.039	63.076	34.980	1.00 16.60	В
	ATOM		G GLN	189	8.890	61.643	35.564	1.00 16.53	В
			D GLN	189	8.284	61.597	36.966	1.00 18.48	В
	ATOM		E1 GLN	189	8.274	60.553	37.608	1.00 17.85	В
65	ATOM				7.777	62.734	37.431	1.00 22.55	В
65	ATOM		IE2 GLN	189	7.777	63.546	36.889	1.00 22.33	В
	ATOM	2264 HE		189					
	ATOM	2265 HE		189	7.387	62.711	38.332	1.00 0.00	В
	ATOM	2266 C		189	9.444	62.015	32.769	1.00 18.02	В
70	ATOM	2267 C		189	8.630	62.295	31.903	1.00 13.48	В
70	MOTA	2268 N		190	9.963	60.799	32.897	1.00 17.53	В
	ATOM	2269 H		190	10.629	60.631	33.593	1.00 0.00	В
	ATOM		A TYR	190	9.553	59.725	32.022	1.00 16.18	В
	MOTA	2271 C	B TYR	190	10.587	59.512	30.894	1.00 21.58	В

ATOM 2274 CBI TYR 190 12.035 57.474 31.253 1.00 29.37 B ATOM 2275 CD2 TYR 190 12.937 59.615 31.032 1.00 26.648 B ATOM 2275 CD2 TYR 190 12.937 59.616 31.032 1.00 26.648 B ATOM 2276 CB TYR 190 12.937 59.616 31.032 1.00 26.648 B ATOM 2277 CB TYR 190 14.105 59.662 32.233 1.00 24.14 B ATOM 2277 CB TYR 190 15.251 56.664 32.233 1.00 24.14 B ATOM 2278 CB TYR 190 15.251 56.664 32.618 1.00 27.14 B ATOM 2278 CB TYR 190 15.251 56.664 32.618 1.00 7.00 0.00 B ATOM 2280 C TYR 190 9.546 58.474 32.860 1.00 17.06 B ATOM 2281 CB TYR 190 9.546 58.474 32.860 1.00 17.06 B ATOM 2283 H GLY 191 8.656 57.502 32.273 1.00 18.92 B ATOM 2283 H GLY 191 8.553 57.624 31.354 1.00 0.00 B ATOM 2286 C GLY 131 7.2778 57.624 31.354 1.00 0.00 B ATOM 2287 CB TYR 190 9.546 58.474 32.860 1.00 16.00 B ATOM 2288 CB GLY 191 8.553 57.624 31.354 1.00 0.00 B ATOM 2288 CB GLY 191 8.553 57.624 31.354 1.00 0.00 B ATOM 2288 CB GLY 191 8.553 57.624 31.354 1.00 0.00 B ATOM 2288 CB GLY 191 8.553 57.624 31.354 1.00 0.00 B ATOM 2288 CB GLY 191 8.553 57.624 31.354 1.00 0.00 B ATOM 2288 CB GLY 191 8.533 57.624 31.00 16.00 B ATOM 2288 CB GLY 191 8.533 57.624 31.00 16.00 B ATOM 2289 CB GLY 192 7.672 54.993 31.041 1.00 16.02 B ATOM 2289 CB GLU 192 6.728 54.993 31.041 1.00 16.02 B ATOM 2290 CB GLU 192 6.728 54.371 30.100 1.00 24.28 B ATOM 2290 CB GLU 192 5.433 53.90 30.93 847 1.00 0.00 B ATOM 2291 CG GLU 192 5.533 52.419 30.945 1.00 36.40 B ATOM 2292 CB GLU 192 5.433 53.90 30.90 30.90 1.00 11.95 B ATOM 2293 CB GLU 192 5.535 52.419 30.945 1.00 36.40 B ATOM 2293 CB GLU 192 5.535 52.419 30.945 1.00 36.40 B ATOM 2293 CB GLU 193 5.90 50.66 32.2851 1.00 36.40 B ATOM 2293 CB GLU 193 5.90 50.66 32.2851 1.00 36.40 B ATOM 2293 CB ASN 193 5.90 50.66 32.2851 1.00 36.40 B ATOM 2293 CB ASN 193 5.90 50.66 32.2851 1.00 36.40 B ATOM 2293 CB ASN 193 5.90 50.66 32.2851 1.00 36.40 B ATOM 2293 CB ASN 193 5.90 50.66 32.2851 1.00 0.00 18.48 B ATOM 2305 CB ASN 193 5.90 50.66 32.2851 1.00 0.00 18.48 B ATOM 2307 CB ASN 193 5.90 50.66 32.2851 1.00 0.00 18.48 B ATOM 2308 CB ASN 193 5.90 50.66 32.2850		ATOM	2272	CG TYR	190	11.882	58.859	31.318	1.00 24.13	В
ATOM 2275 COL TYR 190 12,937 59,617 31,835 1,00 22,43 B							57.474 56.859	31.253 31.702	1.00 29.37 1.00 26.64	B B
ATOM 2277 CZ TYR 190						12.937	59.617	31.835	1.00 22.88	В
ATOM 2279 OH TYR 190 15.330 57.013 32.741 1.00 25.80 B ATOM 2290 C TYR 190 9.346 58.474 32.866 1.00 17.06 B ATOM 2282 N GLY 191 8.666 57.502 32.273 1.00 19.81 B ATOM 2282 N GLY 191 8.666 57.502 32.273 1.00 19.81 B ATOM 2284 CA GLY 191 8.353 57.624 31.354 1.00 0.00 B ATOM 2285 C GLY 191 8.373 56.255 32.963 1.00 16.20 B ATOM 2286 O GLY 191 7.278 55.625 32.963 1.00 16.20 B ATOM 2286 O GLY 191 7.278 55.625 32.963 1.00 16.20 B ATOM 2286 O GLY 191 7.278 55.625 32.963 1.00 16.02 B ATOM 2287 N GLY 191 8.373 56.255 32.963 1.00 16.02 B ATOM 2287 N GLY 191 7.278 55.625 32.963 1.00 16.02 B ATOM 2287 N GLY 191 192 7.672 54.993 31.041 1.00 16.02 B ATOM 2289 C GLY 191 192 7.672 54.993 31.041 1.00 16.02 B ATOM 2289 C GLY 191 192 7.672 54.993 30.847 1.00 0.00 34.36 B ATOM 2282 C GLY 191 192 5.233 55.213 1.00 10.00 10.50 B B ATOM 2289 C GLY 191 192 5.233 55.213 1.00 10.00 10.50 B B ATOM 2289 C GLY 191 192 5.233 55.311 31.041 1.00 10.00 11.05 B B ATOM 2289 C GLY 191 192 5.233 55.311 31.041 1.00 10.00 11.05 B B ATOM 2289 C GLY 191 192 5.233 55.311 31.041 1.00 10.00 11.05 B B ATOM 2289 C GLY 191 192 5.233 55.311 31.041 1.00 16.02 B B ATOM 2289 C GLY 192 5.233 55.311 31.041 1.00 16.02 B ATOM 2289 C GLY 192 5.233 55.311 31.041 1.00 16.02 B ATOM 2289 C GLY 192 5.233 55.433 55.310 10.04 1.05 1.05 1.05 1.05 1.05 1.05 1.05 1.05	5									
ATOM 2279 HH TYR 190 15.251 56.064 32.618 1.00 0.00 B										
10 Arrow 2281 O Tyre 190 9.753 58.408 34.027 1.00 19.81 B Arrow 2282 N GLV 191 8.565 57.624 31.354 1.00 18.92 B Arrow 2283 H GLV 191 8.353 57.624 31.354 1.00 16.92 B Arrow 2284 C GLV 191 8.353 57.624 31.354 1.00 16.02 B Arrow 2285 C GLV 191 7.278 55.625 32.137 1.00 17.90 B Arrow 2286 C GLV 191 6.100 55.732 32.480 1.00 16.02 B Arrow 2286 N GLU 192 7.672 54.993 31.041 1.00 16.02 B Arrow 2288 C GLV 191 6.100 55.732 32.480 1.00 16.02 B Arrow 2289 C GLU 192 8.631 54.993 31.041 1.00 16.02 B Arrow 2289 C GLU 192 8.631 54.993 31.041 1.00 10.00 B Arrow 2299 C G GLU 192 5.253 52.419 30.847 1.00 1.00 20.00 B Arrow 2291 C G GLU 192 5.253 52.419 30.845 1.00 31.09 1.00 24.28 B Arrow 2291 C G GLU 192 5.253 52.419 30.798 1.00 31.095 B Arrow 2292 C G GLU 192 5.253 52.419 30.798 1.00 31.095 B Arrow 2292 C G GLU 192 4.309 52.063 32.084 1.00 36.40 B Arrow 2292 C G GLU 192 3.996 50.864 32.253 1.00 46.13 B Arrow 2293 OEI GLU 192 3.996 50.864 32.253 1.00 46.13 B Arrow 2295 C GLU 192 3.996 50.864 32.253 1.00 46.13 B Arrow 2295 C GLU 192 3.996 50.864 32.253 1.00 46.13 B Arrow 2295 C GLU 192 3.9878 55.983 27.877 1.00 5.05 6 B Arrow 2297 N GLW 192 3.9878 55.983 27.877 1.00 5.06 B Arrow 2299 C GLU 192 3.9878 55.983 27.877 1.00 5.06 B Arrow 2299 C GLU 193 5.980 55.614 29.580 1.00 13.96 B Arrow 2299 C GLU 193 5.990 55.614 29.580 1.00 13.96 B Arrow 2299 C GLU 193 5.990 55.614 29.580 1.00 13.96 B Arrow 2299 C GLU 193 5.990 55.614 29.580 1.00 13.96 B Arrow 2299 C GLU 193 5.990 55.614 29.580 1.00 13.96 B Arrow 2290 C B ASN 193 5.990 55.614 29.580 1.00 13.96 B Arrow 2290 C B ASN 193 5.990 55.614 29.580 1.00 13.96 B ARROW 2290 C B ASN 193 5.990 55.614 29.580 1.00 13.96 B ARROW 2290 C B ASN 193 5.990 55.614 29.580 1.00 13.96 B ARROW 2200 C B ASN 193 5.990 55.614 29.580 1.00 13.96 B ARROW 2200 C B ASN 193 5.990 55.614 29.580 1.00 13.96 B ARROW 2200 C B ASN 193 5.990 55.614 29.580 1.00 13.96 B ARROW 2200 C B ASN 193 5.990 55.614 29.580 1.00 13.96 B ARROW 2200 C B ASN 193 5.990 55.614 29.580 1.00 13.36 B ARROW 2200 C B ASN 193 5.990 55.614 29.580 1.0			2279	HH TYR	190		56.064			
ARON 2287 M CLV 191 8.566 57.502 32.273 1.00 18.92 B ARON 2288 M CLV 191 8.373 56.255 32.963 1.00 16.20 B ARON 2288 C CLV 191 7.278 55.625 32.963 1.00 16.20 B ARON 2285 C CLV 191 7.278 55.625 32.137 1.00 17.90 B ARON 2285 C CLV 191 7.278 55.625 32.137 1.00 17.90 B ARON 2286 C CLV 191 7.278 55.625 32.137 1.00 17.90 B ARON 2286 C CLV 191 7.278 55.625 32.137 1.00 17.90 B ARON 2287 C CLV 191 7.278 55.625 32.137 1.00 17.90 B ARON 2288 H GLU 192 7.672 54.993 31.041 1.00 16.02 B ARON 2288 C GLU 192 6.285 54.939 31.047 1.00 10.00 B ARON 2289 C G GLU 192 6.285 54.939 31.047 1.00 10.00 B ARON 2290 C G GLU 192 5.433 53.920 30.798 1.00 31.95 B ARON 2291 C G GLU 192 5.235 52.419 30.945 1.00 36.40 B ARON 2292 C D GLU 192 4.309 52.063 32.084 1.00 46.73 B ARON 2294 OEZ GLU 192 3.986 50.844 32.253 1.00 46.73 B ARON 2294 OEZ GLU 192 6.518 55.299 27.870 1.00 19.84 B ARON 2295 C GLU 192 6.518 55.299 27.870 1.00 19.84 B ARON 2297 C GLU 192 6.518 55.299 27.870 1.00 19.84 B ARON 2299 C	10									
AROM 2283 H GLV 191 8,353 57,624 31,354 1.00 0.00 B AROM 2285 C GLV 191 7,278 55,625 32,137 1.00 16.20 B AROM 2286 O GLV 191 6,100 55,732 32,430 1.00 16.02 B AROM 2286 O GLV 191 6,100 55,732 32,430 1.00 17.90 B AROM 2288 H GLU 192 8,631 54,939 31,041 1.00 16.02 B AROM 2289 CA GLU 192 8,631 54,939 31,041 1.00 10.00 B AROM 2290 CB GLU 192 5,233 35,392 30,379 1.00 17.00 24,28 B AROM 2290 CB GLU 192 5,233 53,290 30,797 1.00 10,00 B AROM 2291 CG GLU 192 5,253 52,419 30,945 1.00 36,40 B AROM 2292 CD GLU 192 4,309 52,063 32,084 1.00 36,40 B AROM 2292 CD GLU 192 3,996 50,864 32,253 1.00 46,173 B AROM 2295 C GLU 192 3,996 50,864 32,253 1.00 46,173 B AROM 2295 C GLU 192 6,197 55,450 29,077 1.00 19,84 B AROM 2295 C GLU 192 6,197 55,450 29,077 1.00 19,84 B AROM 2297 N ASN 193 5,196 56,614 29,580 1.00 13,96 B AROM 2299 CA ASN 193 5,195 5,450 29,077 1.00 16,66 B AROM 2299 CA ASN 193 5,195 5,450 29,077 1.00 16,66 B AROM 2299 CA ASN 193 5,195 5,450 29,077 1.00 16,66 B AROM 2299 CA ASN 193 5,195 5,450 29,077 1.00 16,66 B AROM 2209 CB ASN 193 5,195 5,450 29,077 1.00 16,66 B AROM 2209 CB ASN 193 5,195 5,450 29,077 1.00 16,66 B AROM 2209 CB ASN 193 5,195 5,450 29,077 1.00 16,66 B AROM 2209 CB ASN 193 5,195 5,450 29,077 1.00 16,66 B AROM 2209 CB ASN 193 5,195 5,450 29,077 1.00 16,66 B AROM 2209 CB ASN 193 5,195 5,450 29,077 1.00 16,66 B AROM 2209 CB ASN 193 5,195 5,450 29,077 1.00 16,66 B AROM 2200 CB ASN 193 5,195 5,450 29,077 1.00 16,66 B AROM 2200 CB ASN 193 5,195 5,450 29,077 1.00 16,66 B AROM 2200 CB ASN 193 5,195 5,450 29,077 1.00 16,66 B AROM 2200 CB ASN 193 5,195 5,450 29,077 1.00 16,66 B AROM 2200 CB ASN 193 5,450 5,450 29,077 1.00 16,66 B AROM 2200 CB ASN 193 5,450 5,450 29,077 1.00 16,66 B AROM 2200 CB ASN 193 3,165 56,857 29,22 1.00 10,00 10,00 B AROM 2200 CB ASN 193 3,165 56,857 29,22 1.00 10,00 10,00 B AROM 2200 CD ASN 193 3,165 56,857 29,22 1.00 10,00 10,00 B AROM 2200 CD ASN 193 3,165 56,857 29,22 1.00 10,00 10,00 B AROM 2200 CD ASN 193 5,450 50 50 50 50 50 50 50 50 50 50 50 50 5	10							32.273	1.00 18.92	В
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ATOM 2343 CD GLU 197 6.265 66.461 36.330 1.00 19.16 B	70							35.626	1.00 22.26	В
ATOM 2344 OE1 GLU 197 5.436 67.324 36.655 1.00 21.45		ATOM	2343	CD GL	J 197	6.265	66.461	36.330	1.00 19.16	
		MOTA	2344	OE1 GL	ັນ 197	5.436	67.324	36.655	1.00 21.45	В

	ATOM	2345		GLU	197	6.080	65.252	36.559	1.00 25.81	В
	MOTA	2346	C	GLU	197	6.697	70.432	34.179	1.00 21.01 1.00 20.20	B B
	ATOM	2347	O	GLU	197 198	5.771 7.715	71.057 71.028	34.704 33.568	1.00 20.20	В
5	ATOM ATOM	2348 2349	N H	PHE PHE	198	8.475	70.486	33.270	1.00 0.00	В
3	ATOM	2350	CA	PHE	198	7.733	72.465	33.329	1.00 16.85	В
	ATOM	2351	CB	PHE	198	7.846	73.321	34.618	1.00 19.79	В
	ATOM	2352	CG	PHE	198	9.077	73.099	35.447	1.00 18.93	В
	MOTA	2353	CD1	PHE	198	10.282	73.736	35.134	1.00 15.68	В
10	MOTA	2354	CD2	PHE	198	9.003	72.358	36.619	1.00 17.58	В
	ATOM	2355	CE1		198	11.389	73.642	35.984 37.480	1.00 8.10 1.00 17.77	B B
	ATOM	2356 2357	CE2 CZ	PHE PHE	198 198	10.113 11.307	72.258 72.909	37.480	1.00 17.77	В
	MOTA MOTA	2358	CZ	PHE	198	8.773	72.827	32.285	1.00 23.38	В
15	ATOM	2359	0	PHE	198	9.848	72.210	32.191	1.00 19.68	В
15	ATOM	2360	N	ASN	199	8.403	73.797	31.457	1.00 22.68	В
	ATOM	2361	Н	ASN	199	7.536	74.227	31.581	1.00 0.00	В
	ATOM	2362	CA	ASN	199	9.251	74.241	30.379	1.00 19.07	В
• •	ATOM	2363	CB	ASN	199	8.402	74.980	29.342	1.00 18.17	B B
20	ATOM	2364	CG	ASN	199	7.545	74.033 72.824	28.511 28.741	1.00 16.13 1.00 21.16	В
	MOTA	2365 2366	ND2	ASN	199 199	7.520 6.849	74.579	27.532	1.00 21.10	В
	ATOM ATOM		HD21		199	6.902	75.547	27.376	1.00 0.00	В
	ATOM		HD22		199	6.292	73.989	26.986	1.00 0.00	В
25	MOTA	2369	С	ASN	199	10.434	75.094	30.832	1.00 15.04	В
	MOTA	2370	0	ASN	199	10.465	75.613	31.944	1.00 15.97	В
	MOTA	2371	N	LEU	200	11.414	75.189	29.935	1.00 20.27 1.00 0.00	B B
	ATOM	2372	H	LEU	200	11.297 12.655	74.727 75.939	29.080 30.140	1.00 0.00 1.00 20.09	В
30	ATOM ATOM	2373 2374	CA CB	LEU LEU	200 200	13.504	75.847	28.859	1.00 20.33	В
30	ATOM	2375	CG	LEU	200	15.000	75.481	28.771	1.00 19.69	В
	ATOM	2376	CD1	LEU	200	15.510	74.719	29.975	1.00 14.91	В
	ATOM	2377	CD2	LEU	200	15.189	74.680	27.506	1.00 11.40	В
	ATOM	2378	С	LEU	200	12.387	77.404	30.468	1.00 18.48	B B
35	ATOM	2379	0	LEU	200	13.155 11.295	78.034 77.949	31.193 29.940	1.00 20.99 1.00 13.45	В
	MOTA MOTA	2380 2381	N H	ASN ASN	201 201	10.701	77.403	29.382	1.00 13.43	В
	MOTA	2382	CA	ASN	201	10.978	79.350	30.190	1.00 22.91	В
	ATOM	2383	CB	ASN	201	10.645	80.061	28.877	1.00 23.93	В
40	MOTA	2384	CG	ASN	201	9.360	79.545	28.229	1.00 25.62	В
	MOTA	2385		ASN	201	9.048	79.911	27.103	1.00 32.16	B B
	ATOM	2386		ASN	201	8.624 8.908	78.700 78.429	28.932 29.828	1.00 24.92 1.00 0.00	В
	ATOM ATOM	2388	HD21 HD22		201 201	7.801	78.368	28.519	1.00 0.00	В
45	ATOM	2389	C	ASN	201	9.826	79.549	31.162	1.00 24.74	В
1.5	ATOM	2390	Ö	ASN	201	9.352	80.664	31.329	1.00 21.95	В
	MOTA	2391	N	LYS	202	9.378	78.468	31.789	1.00 27.24	В
	MOTA	2392	H	LYS	202	9.806	77.604	31.615	1.00 0.00 1.00 28.50	B B
50	ATOM	2393	CA	LYS	202 202	8.261 7.936	78.527 77.122	32.735 33.249	1.00 26.30	В
50	ATOM ATOM	2394 2395	CB CG	LYS LYS	202	6.537	77.001	33.861	1.00 44.45	В
	MOTA	2396	CD	LYS	202	5.511	76.529	32.828	1.00 51.43	В
	ATOM	2397	CE	LYS	202	5.819	75.112	32.334	1.00 52.91	В
	MOTA	2398	NZ	LYS	202	5.156	74.748	31.049	1.00 49.04	В
55	MOTA	2399		LYS	202	5.462	75.400	30.301 31.163	1.00 0.00 1.00 0.00	B B
	ATOM	2400		LYS	202	$4.124 \\ 5.419$	74.807 73.774	30.788	1.00 0.00	В
	MOTA MOTA	2401 2402	ПZ3 С	LYS LYS	202 202	8.450	79.451	33.934	1.00 25.89	B
	ATOM	2403	0	LYS	202	7.550	80.227	34.260	1.00 25.05	В
60	ATOM	2404	N	TYR	203	9.617	79.348	34.577	1.00 22.72	В
	ATOM	2405	H	TYR	203	10.276	78.722	34.225	1.00 0.00	В
	MOTA	2406	CA	TYR	203	9.978	80.123	35.770	1.00 26.57	В
	ATOM	2407	CB	TYR	203 203	10.246 9.065	79.166 78.303	36.937 37.215	1.00 20.51 1.00 23.59	B B
65	MOTA	2408	CG CD1	TYR	203	9.005	76.941	36.901	1.00 24.81	B
65	ATOM ATOM	2409 2410		TYR	203	7.927	76.163	37.057	1.00 23.81	В
	ATOM	2411			203	7.886	78.870	37.706	1.00 26.42	В
	ATOM	2412	CE2		203	6.741	78.113	37.871	1.00 28.83	В
	MOTA	2413	CZ	TYR	203	6.762	76.763	37.542	1.00 32.83	В
70	ATOM	2414		TYR	203	5.598	76.043	37.683	1.00 29.24 1.00 0.00	B B
	ATOM	2415		TYR	203	5.758 11.201	75.133 81.013	37.423 35.569	1.00 0.00 1.00 27.09	В
	ATOM	2416 2417		TYR TYR	203 203	12.229	80.563	35.056	1.00 27.03	В
	MOTA	741/	J	111	203	22.222				

	MOTA	2418	N SER	204	11.089	82.268	35.995	1.00 29.38	В
	ATOM	2419	H SER	204	10.256	82.561	36.419	1.00 0.00	В
	ATOM	2420	CA SER	204	12.189	83.216	35.845	1.00 29.68	B B
_	MOTA	2421	CB SER	204	11.701	84.509 84.974	35.158 35.668	1.00 29.69 1.00 34.41	В
5	ATOM	2422	OG SER	204 204	10.458 9.786	84.301	35.536	1.00 0.00	В
	ATOM	2423 2424	HG SER C SER	204	12.917	83.547	37.150	1.00 30.79	B
	MOTA MOTA	2424	O SER	204	13.453	84.642	37.314	1.00 31.71	В
	ATOM	2426	N SER	205	12.934	82.587	38.074	1.00 28.19	В
10	MOTA	2427	H SER	205	12.458	81.749	37.903	1.00 0.00	В
10	ATOM	2428	CA SER	205	13.642	82.755	39.334	1.00 22.80	В
	ATOM	2429	CB SER	205	12.895	83.709	40.263	1.00 23.08	В
	ATOM	2430	OG SER	205	11.998	83.004	41.097	1.00 23.87	В
	ATOM	2431	HG SER	205	11.543	83.623	41.672	1.00 0.00	В
15	MOTA	2432	C SER	205	13.851	81.395	40.003	1.00 25.18	В
	MOTA	2433	O SER	205	13.079	80.451	39.794	1.00 20.34	В
	MOTA	2434	N THR	206	14.919	81.307	40.788	1.00 23.66	В
	MOTA	2435	H THR	206	15.486	82.100	40.902	1.00 0.00	В
	MOTA	2436	CA THR	206	15.289	80.086	41.487	1.00 27.98	В
20	MOTA	2437	CB THR	206	16.678	80.229	42.129	1.00 26.89 1.00 29.58	B B
	ATOM	2438	OG1 THR	206	17.514	81.019	41.272 40.418	1.00 29.38	В
	ATOM	2439	HG1 THR	206	17.597	80.587 78.875	40.416	1.00 0.00	В
	ATOM	2440	CG2 THR	206	17.319 14.295	79.661	42.556	1.00 22.70	B
25	ATOM	2441	C THR	206 206	14.253	78.457	42.730	1.00 24.79	В
25	ATOM	2442	O THR N GLU	207	13.713	80.626	43.274	1.00 29.47	В
	MOTA MOTA	2443 2444	N GLU H GLU	207	13.932	81.567	43.109	1.00 0.00	В
	ATOM	2444	CA GLU	207	12.746	80.266	44.308	1.00 32.79	В
	ATOM	2446	CB GLU	207	12.209	81.492	45.089	1.00 38.54	В
30	ATOM	2447	CG GLU	207	12.696	82.875	44.665	1.00 45.27	В
50	ATOM	2448	CD GLU	207	11.738	84.002	45.104	1.00 52.80	В
	ATOM	2449	OE1 GLU	207	11.106	84.632	44.220	1.00 49.46	В
	MOTA	2450	OE2 GLU	207	11.618	84.260	46.330	1.00 48.25	В
	ATOM	2451	C GLU	207	11.582	79.567	43.623	1.00 30.36	В
35	MOTA	2452	O GLU	207	11.141	78.499	44.052	1.00 29.14	В
	MOTA	2453	N GLU	208	11.108	80.172	42.538	1.00 30.06	В
	MOTA	2454	H GLU	208	11.527	81.005	42.237	1.00 0.00 1.00 24.26	B B
	MOTA	2455	CA GLU	208	9.980	79.635 80.606	41.781 40.680	1.00 25.42	В
40	MOTA	2456	CB GLU	208	9.588 8.833	81.818	41.198	1.00 23.42	В
40	ATOM	2457	CG GLU	208 208	8.830	82.953	40.203	1.00 37.03	В
	MOTA	2458 2459	CD GLU OE1 GLU	208	7.763	83.243	39.623	1.00 39.29	В
	ATOM ATOM	2459	OE1 GLU	208	9.900	83.551	40.000	1.00 39.74	В
	ATOM	2461	C GLU	208	10.223	78.265	41.174	1.00 20.07	В
45	ATOM	2462	O GLU	208	9.308	77.465	41.049	1.00 24.58	В
1.5	ATOM	2463	N VAL	209	11.459	78.000	40.783	1.00 17.97	В
	ATOM	2464	H VAL	209	12.154	78.681	40.891	1.00 0.00	В
	ATOM	2465	CA VAL	209	11.798	76.715	40.198	1.00 15.42	В
	ATOM	2466	CB VAL	209	13.158	76.797	39.466		В
50	ATOM	2467	CG1 VAL	209	13.810	75.418	39.380	1.00 13.02	В
	MOTA	2468	CG2 VAL	209	12.946	77.399	38.087	1.00 13.44 1.00 16.08	В
	MOTA	2469	C VAL	209	11.860	75.669	41.308	1.00 16.08	B B
	MOTA	2470	O VAL	209	11.460	74.521 76.074	41.110 42.480	1.00 17.36	В
ے ہے	MOTA	2471	N LEU	210	12.345 12.643	77.004	42.575	1.00 0.00	В
55	ATOM	2472	H LEU	210 210	12.445	75.166	43.626	1.00 24.65	В
	MOTA	2473	CA LEU CB LEU	210	13.202	75.824	44.777	1.00 19.16	В
	ATOM	2474 2475	CG LEU	210	14.712	75.955	44.603	1.00 29.23	В
	ATOM ATOM	2476	CD1 LEU	210	15.270	76.886	45.687	1.00 32.84	В
60	ATOM	2477	CD2 LEU	210	15.354		44.682	1.00 27.82	В
00	ATOM	2478	C LEU	210	11.051	74.805	44.099	1.00 27.07	В
	ATOM	2479	O LEU	210	10.790		44.555	1.00 24.27	В
	ATOM	2480	N VAL	211	10.150	75.770	44.012	1.00 27.55	В
	ATOM	2481	H VAL	211	10.408	76.654	43.678	1.00 0.00	В
65	ATOM	2482	CA VAL	211	8.787	75.518	44.414	1.00 24.35	В
	ATOM	2483	CB VAL	211	7.966		44.404	1.00 23.80	В
	ATOM	2484		211	6.474		44.344	1.00 22.78	В
	ATOM	2485	CG2 VAL	211	8.292		45.661	1.00 20.18	В
	MOTA	2486	C VAL	211	8.176		43.472	1.00 24.70	В
70	MOTA	2487	O VAL	211	7.566		43.934	1.00 24.21	В
	ATOM	2488	N ALA		8.364		42.163	1.00 24.07 1.00 0.00	B B
	MOTA	2489			8.883		41.847 41.183	1.00 0.00 1.00 23.91	B
	MOTA	2490	CA ALA	212	7.806	73.695	41.102	1.00 43.91	נו

	ATOM	2491 CB ALA	212		74.221	39.777	1.00 20.84	В
	ATOM	2492 C ALA	212		72.299	41.279	1.00 23.54	В
	MOTA	2493 O ALA	212		71.280	41.195	1.00 19.74	В
~	MOTA	2494 N ALA	213	- '	72.270 73.119	41.433 41.495	1.00 22.17 1.00 0.00	B B
5	ATOM	2495 H ALA	213 213		71.032	41.516	1.00 20.06	В
	MOTA	2496 CA ALA 2497 CB ALA	213		71.332	41.523	1.00 23.28	В
	MOTA MOTA	2497 CB ALA 2498 C ALA	213		70.259	42.763	1.00 24.35	В
	ATOM	2499 O ALA	213		69.034	42.748	1.00 24.95	В
10	MOTA	2500 N ASN	214		70.969	43.844	1.00 24.25	B
10	ATOM	2501 H ASN	214	9.875	71.949	43.812	1.00 0.00	В
	ATOM	2502 CA ASN	214	9.434	70.304	45.086	1.00 24.82	В
	ATOM	2503 CB ASN	214	9.604	71.247	46.273	1.00 26.46	В
	MOTA	2504 CG ASN	214	10.981	71.151	46.882	1.00 28.78	В
15	MOTA	2505 OD1 ASN	214	11.870	71.958	46.578	1.00 23.63	B B
	MOTA	2506 ND2 ASN	214	11.179	70.153	47.739 47.941	1.00 25.69 1.00 0.00	В
	MOTA	2507 HD21 ASN	214	10.444 12.063	69.533 70.070	48.145	1.00 0.00	В
	ATOM	2508 HD22 ASN	$\frac{214}{214}$	8.013	69.755	45.069	1.00 24.64	В
20	MOTA MOTA	2509 C ASN 2510 O ASN	214	7.606	69.021	45.974	1.00 18.78	В
20	ATOM	2511 N LYS	215	7.256	70.103	44.039	1.00 23.65	В
	ATOM	2512 H LYS	215	7.617	70.696	43.345	1.00 0.00	В
	ATOM	2513 CA LYS	215	5.901	69.609	43.933	1.00 26.33	В
	ATOM	2514 CB LYS	215	4.961	70.746	43.526	1.00 22.52	В
25	MOTA	2515 CG LYS	215	4.196	71.337	44.708	1.00 28.33	В
	ATOM	2516 CD LYS	215	3.432	72.606	44.316	1.00 32.87	В
	MOTA	2517 CE LYS	215	1.978	72.307	43.951	1.00 30.67	B B
	MOTA	2518 NZ LYS	215	1.649	72.846	42.601 41.892	1.00 35.42 1.00 0.00	В
20	ATOM	2519 HZ1 LYS	215 215	2.271 1.791	72.406 73.875	42.596	1.00 0.00	B
30	ATOM	2520 HZ2 LYS 2521 HZ3 LYS	215	0.658	72.630	42.375	1.00 0.00	B
	MOTA MOTA	2522 C LYS	215	5.760	68.434	42.960	1.00 22.45	В
	MOTA	2523 O LYS	215	4.662	67.926	42.764	1.00 30.36	В
	MOTA	2524 N ILE	216	6.864	67.976	42.375	1.00 16.84	В
35	ATOM	2525 H ILE	216	7.734	68.373	42.593	1.00 0.00	В
	MOTA	2526 CA ILE	216	6.781	66.884	41.415	1.00 12.02	В
	ATOM	2527 CB ILE	216	8.023	66.856	40.498	1.00 14.58	В
	MOTA	2528 CG2 ILE	216	8.050	65.566	39.671	1.00 19.30	B B
40	ATOM	2529 CG1 ILE	216	8.007	68.084	39.574 38.904	1.00 13.98 1.00 13.34	В
40	ATOM	2530 CD1 ILE	216	9.345 6.586	68.390 65.514	42.061	1.00 13.34	В
	MOTA MOTA	2531 C ILE 2532 O ILE	216 216	7.311	65.135	42.980	1.00 15.03	В
	ATOM	2533 N GLY	217	5.581	64.785	41.580	1.00 17.89	В
	ATOM	2534 H GLY	217	5.022	65.150	40.868	1.00 0.00	В
45	MOTA	2535 CA GLY	217	5.304	63.452	42.103	1.00 17.34	В
	ATOM	2536 C GLY	217	5.749	62.385	41.112	1.00 14.75	В
	MOTA	2537 O GLY	217	5.675	62.588	39.898	1.00 15.21	В
	MOTA	2538 N ARG	218	6.207	61.248	41.631	1.00 14.09	В
	MOTA	2539 H ARG	218	6.226	61.146		1.00 0.00	В
50	ATOM	2540 CA ARG	218	6.683	60.152	40.797	1.00 17.47 1.00 21.57	B B
	ATOM	2541 CB ARG	218	7.195 6.442	59.023 57.725	41.707 41.637	1.00 25.79	В
	MOTA	2542 CG ARG 2543 CD ARG	218 218	7.384	56.563	41.388	1.00 22.17	В
	MOTA MOTA	2543 CD ARG 2544 NE ARG	218	7.509	55.752	42.588	1.00 16.26	В
55	MOTA	2545 HE ARG	218	6.793	55.112	42.782	1.00 0.00	В
55	ATOM	2546 CZ ARG	218	8.531	55.814	43.431	1.00 16.32	В
	ATOM	2547 NH1 ARG	218	9.521	56.644	43.210	1.00 28.95	В
	MOTA	2548 HH11 ARG	218	9.511	57.229	42.399	1.00 0.00	В
	MOTA	2549 HH12 ARG	218	10.287	56.689	43.849	1.00 0.00	В
60	ATOM	2550 NH2 ARG	218	8.546	55.054	44.512	1.00 33.70	В
	MOTA	2551 HH21 ARG	218	7.789	54.425	44.693	1.00 0.00	В
	MOTA	2552 HH22 ARG	218	9.316	55.104	45.146	1.00 0.00	В
	ATOM	2553 C ARG	218	5.533	59.701	39.912	1.00 14.35 1.00 19.15	B B
~~	ATOM	2554 O ARG	218	4.524	59.251	40.405 38.597	1.00 19.13	В
65	MOTA	2555 N GLN	219	5.670 6.506	59.815 60.148	38.597	1.00 17.48	В
	MOTA	2556 H GLN	219 219	4.552	59.438	37.749	1.00 26.72	В
	ATOM	2557 CA GLN 2558 CB GLN	219	4.552	60.107	36.363	1.00 23.72	В
	MOTA	2558 CB GLN 2559 CG GLN	219	5.223	59.280	35.221	1.00 25.69	В
70	MOTA MOTA	2560 CD GLN	219	5.649	60.171	34.056	1.00 33.29	В
70	ATOM	2561 OE1 GLN	219	5.982	61.346	34.257	1.00 26.70	В
	ATOM	2562 NE2 GLN	219	5.634	59.627	32.832	1.00 18.76	В
	ATOM	2563 HE21 GLN	219	5.360	58.692	32.720	1.00 0.00	В

APON											_
NOOM 2566 O GLM 219 3.210 57.475 37.527 1.00 30.40 B		MOTA	2564	HE22	GLN			60.191	32.081	1.00 0.00	В
ROOM 2567 N GLY 220 S.419 S7.1166 37.745 1.00 26.30 B		MOTA		-							
5 ANOM 2568 R GLY 220		MOTA	2566	0							
NOOM 2559 CA GLY 220 S.270 55.728 37.672 1.00 30.10 B		MOTA	2567	N							
MONE 1571 C GLY 220 5.364 55.123 36.282 1.00 29.97 B	5	ATOM	2568								
APOM 2571 O GLY 220 S. 5.002 S. 7.40 S. 25.277 1.00 33.579 B		MOTA	2569			220					
ATOM		MOTA	2570	C	GLY	220	5.364				
ATOM 2572 N GLY 221 6.004 53.889 36.244 1.00 35.79 B A COM 2573 C G GLY 221 6.006 53.453 37.082 1.00 30.72 B A COM 2576 C GLY 221 6.006 51.736 35.283 1.00 40.82 B A COM 2576 C GLY 221 6.006 51.736 35.283 1.00 40.82 B A COM 2576 C GLY 221 6.006 51.736 35.283 1.00 40.82 B A COM 2576 C GLY 221 6.006 51.736 35.283 1.00 40.82 B A COM 2577 N LEU 222 5.974 50.822 34.422 1.00 37.83 B B A COM 2578 H LEU 222 5.974 50.822 34.422 1.00 37.83 B A COM 2578 H LEU 222 6.288 49.402 34.504 1.00 37.83 B A COM 2580 CB LEU 222 6.288 49.402 34.504 1.00 41.03 B A COM 2580 CB LEU 222 4.063 48.84 34.34 34.101 1.00 42.67 B A COM 2581 CB LEU 222 4.063 48.84 34.35 35.126 1.00 48.66 B A COM 2581 CB LEU 222 4.063 48.84 35.35 12.00 1.00 48.66 B A COM 2581 CB LEU 222 4.063 48.84 361 36.891 1.00 44.76 B B A COM 2581 CB LEU 222 4.063 48.861 36.891 1.00 44.76 B B A COM 2581 CB LEU 222 4.063 48.861 36.891 1.00 44.76 B B A COM 2585 CD LEU 222 7.556 49.994 33.911 1.00 42.67 B B A COM 2585 CD LEU 222 8.759 46.994 33.911 1.00 42.67 B B A COM 2585 CD LEU 222 8.759 46.994 33.911 1.00 42.67 B B A COM 2585 CD LEU 222 8.795 49.994 33.911 1.00 42.67 B B A COM 2588 CD LEU 223 8.893 49.825 31.815 1.00 35.86 B B A COM 2589 CD LEU 223 8.893 49.825 31.815 1.00 35.26 B B A COM 2589 CD LEU 223 8.893 49.825 31.815 1.00 35.26 B B A COM 2589 CD LEU 223 8.893 49.825 31.815 1.00 35.26 B B A COM 2589 CD LEU 223 7.368 8.499 33.911 1.00 42.67 B A COM 2589 CD LEU 223 7.368 8.499 33.911 1.00 42.67 B B A COM 2589 CD LEU 223 7.368 8.499 33.911 1.00 42.67 B B A COM 2589 CD LEU 223 8.893 49.825 31.815 1.00 35.26 B B A COM 2589 CD LEU 223 8.893 49.825 31.815 1.00 35.26 B B A COM 2589 CD LEU 223 7.368 8.893 49.825 31.815 1.00 35.26 B B A COM 2589 CD LEU 223 7.368 8.893 49.825 31.815 1.00 35.26 B B A COM 2598 CD LEU 223 7.368 8.893 49.825 31.815 1.00 35.26 B B A COM 2598 CD LEU 223 7.368 8.893 49.825 31.815 1.00 35.26 B B A COM 2598 CD LEU 223 7.368 8.893 49.825 31.815 1.00 35.26 B B A COM 2598 CD LEU 223 7.368 8.893 49.825 31.815 1.00 35.26 B B A COM 2598 CD LEU 223 7.368 6.893 4		MOTA	2571	0	GLY	220	5.002	55.740			
APOM 2574 CA CLY 221 6.004 53.171 34.998 1.00 39.72 B APOM 2575 C CLY 221 6.004 53.171 34.998 1.00 39.72 B APOM 2576 C CLY 221 6.004 51.736 55.283 1.00 40.82 B APOM 2577 C CLY 221 6.004 51.736 55.283 1.00 40.82 B APOM 2577 C CLY 222 5.944 50.823 34.422 1.00 37.83 B APOM 2578 C LEU 222 5.424 51.109 33.665 1.00 40.00 C APOM 2580 CB LEU 222 6.288 49.402 34.564 1.00 41.13 B APOM 2581 CG LEU 222 4.064 47.533 35.126 1.00 48.06 B APOM 2582 CD1 LEU 222 4.063 48.361 36.380 1.00 47.26 B APOM 2583 CD2 LEU 222 3.259 46.917 34.509 1.00 44.76 B APOM 2584 C LEU 222 3.259 46.917 34.509 1.00 44.76 B APOM 2585 C LEU 222 3.259 46.917 34.509 1.00 44.76 B APOM 2586 N CLW 222 8.193 48.099 33.931 1.00 42.67 B APOM 2586 N CLW 222 8.193 48.099 33.931 1.00 42.67 B APOM 2587 CLW 222 8.193 48.099 33.931 1.00 42.67 B APOM 2587 CLW 223 7.155 49.954 32.723 1.00 35.86 B APOM 2587 CLW 223 7.155 49.954 32.723 1.00 35.86 B APOM 2587 CLW 223 7.155 49.954 32.723 1.00 35.86 B APOM 2589 CG GLN 223 7.155 49.954 32.723 1.00 35.86 B APOM 2589 CG GLN 223 7.155 49.954 32.723 1.00 35.86 B APOM 2599 CG GLN 223 6.995 48.952 30.328 0.01 41.99 B APOM 2599 CG GLN 223 6.995 48.952 30.328 0.01 41.99 B APOM 2599 CG GLN 223 6.995 47.821 29.333 0.01 41.99 B APOM 2599 CG GLN 223 6.995 47.821 29.333 0.01 41.99 B APOM 2599 CG GLN 223 6.995 47.821 29.333 0.01 41.99 B APOM 2599 CG GLN 223 6.995 47.821 29.333 0.01 41.99 B APOM 2599 CG GLN 223 6.995 47.821 29.333 0.01 41.99 B APOM 2599 CG			2572	N	GLY	221	5.849	53.889	36.244		
ATOM 2574 CA GLY 221 6.004 53.171 34.998 1.00 39.72 B ATOM 2575 C GLY 221 6.406 51.736 35.287 1.00 40.82 B ATOM 2576 C GLY 221 6.406 51.736 35.287 1.00 40.82 B ATOM 2577 N LEU 222 5.944 50.822 34.422 1.00 37.83 B ATOM 2578 H LEU 222 5.944 50.822 34.422 1.00 37.83 B ATOM 2587 C LEU 222 6.288 49.402 34.564 1.00 41.13 B ATOM 2580 CB LEU 222 4.063 48.543 34.103 1.00 42.66 B ATOM 2581 C LEU 222 4.063 48.543 34.103 1.00 42.66 B ATOM 2582 CD1 LEU 222 4.063 48.843 38.103 1.00 42.66 B ATOM 2583 CD2 LEU 222 3.259 46.917 34.509 1.00 42.67 B ATOM 2584 C LEU 222 7.506 49.093 35.126 1.00 48.06 B ATOM 2585 C LEU 222 3.259 46.917 34.509 1.00 42.67 B ATOM 2586 N GLW 223 8.193 48.993 33.901 1.00 42.67 B ATOM 2586 N GLW 223 8.193 48.993 33.901 1.00 42.67 B ATOM 2587 H GLN 223 7.755 49.093 33.701 1.00 42.67 B ATOM 2587 H GLN 223 7.755 49.093 33.701 1.00 42.67 B ATOM 2587 H GLN 223 7.755 49.093 33.901 1.00 42.67 B ATOM 2587 H GLN 223 7.755 49.093 33.901 1.00 42.67 B ATOM 2589 C GLW 222 8.193 49.993 39.993 39.913 1.00 42.67 B ATOM 2589 C GLW 223 8.193 49.993 39.993 39.913 1.00 42.67 B ATOM 2589 C GLW 223 8.493 49.993 39.993 39.913 1.00 42.67 B ATOM 2589 C GLW 223 6.893 48.992 39.998 0.01 44.07 B ATOM 2589 C GLW 223 6.893 48.992 39.392 6.00 44.00 8.00 B ATOM 2593 NE2 GLN 223 6.895 48.992 39.328 0.01 44.07 B ATOM 2595 HEZ2 GLN 223 7.756 84.666 2.9528 0.01 44.07 B ATOM 2595 HEZ2 GLN 223 7.766 84.666 2.9528 0.01 44.07 B ATOM 2595 HEZ2 GLN 223 7.766 84.066 2.9528 0.01 44.00 B ATOM 2595 HEZ2 GLN 223 5.707 48.966 2.9528 0.01 44.00 0.0 B ATOM 2596 C GLN 223 9.695 48.992 30.328 0.01 44.00 B ATOM 2596 C GLN 223 9.695 48.992 30.328 0.01 44.00 B ATOM 2596 C GLN 223 9.696 2.9528 0.01 45.00 0.0 B ATOM 2596 C GLN 223 9.696 2.9528 0.01 45.00 0.0 B ATOM 2596 C GLN 223 9.696 2.9528 0.01 45.00 0.0 B ATOM 2596 C GLN 223 9.696 2.9528 0.01 45.00 0.0 B ATOM 2596 C GLN 223 9.696 2.9528 0.01 45.00 0.0 B ATOM 2596 C GLN 223 9.696 2.9528 0.00 0.0 0.0 B ATOM 2596 C GLN 223 9.696 2.9528 0.0 0.0 0.0 0.0 B ATOM 2596 C GLW 224 1.966 2.9528 0.0 0.0 0.0 0.0 B ATOM 2	10	MOTA	2573	H	GLY	221	6.109	53.453			
ATOM 2576 O GLY 221 7.085 51.463 36.277 1.00 41.96 B ATOM 2578 H LBU 222 5.974 50.822 34.422 1.00 37.83 B ATOM 2578 H LBU 222 5.944 50.822 34.422 1.00 37.83 B ATOM 2580 CB LBU 222 6.288 49.402 34.564 1.00 41.13 B ATOM 2581 CG LBU 222 4.467 47.593 35.126 1.00 42.69 B ATOM 2581 CG LBU 222 4.063 48.543 34.103 1.00 42.69 B ATOM 2582 CD1 LBU 222 4.063 48.543 35.126 1.00 47.26 B ATOM 2584 C LBU 222 4.063 48.361 36.380 1.00 47.26 B ATOM 2584 C LBU 222 3.259 46.917 34.509 1.00 44.76 B ATOM 2585 CD LBU 222 3.259 46.917 34.509 1.00 44.76 B ATOM 2586 N GLN 223 7.155 49.954 32.723 1.00 35.86 B ATOM 2586 N GLN 223 7.155 49.954 32.723 1.00 35.86 B ATOM 2588 CA GLN 223 7.755 49.954 32.723 1.00 35.86 B ATOM 2589 CG GLN 223 8.893 49.825 31.815 1.00 35.26 B ATOM 2589 CG GLN 223 8.893 49.825 31.815 1.00 35.26 B ATOM 2589 CG GLN 223 8.893 49.825 31.815 1.00 35.26 B ATOM 2589 CG GLN 223 6.899 47.821 29.332 0.01 44.90 B ATOM 2599 LD GLN 223 6.899 47.821 29.332 0.01 44.90 B ATOM 2599 LD GLN 223 6.899 47.821 29.332 0.01 44.90 B ATOM 2599 CG GLN 223 6.995 48.952 30.328 0.01 44.90 B ATOM 2599 LD GLN 223 6.899 47.821 29.332 0.01 44.90 B ATOM 2599 LD GLN 223 6.899 47.821 29.332 0.01 44.90 B ATOM 2599 CG GLN 223 6.995 48.952 30.328 0.01 44.90 B ATOM 2599 CG GLN 223 6.995 48.952 30.328 0.01 45.41 B ATOM 2599 LD GLN 223 6.899 47.821 10.30 37.16 B ATOM 2599 LD GLN 223 6.995 48.952 30.328 0.01 44.90 B ATOM 2599 CG GLN 223 6.995 48.952 30.328 0.01 44.90 B ATOM 2599 LD GLN 223 6.995 48.952 30.328 0.01 44.90 B ATOM 2599 CG GLN 223 6.995 48.952 30.328 0.01 44.90 B ATOM 2599 LD GLN 223 6.995 48.952 30.328 0.01 44.90 B ATOM 2599 LD GLN 223 6.995 48.952 30.328 0.01 44.90 B ATOM 2599 LD GLN 223 6.995 48.952 30.328 0.01 44.90 B ATOM 2599 LD GLN 223 6.995 48.952 30.90 B ATOM 2590 CG GLN 223 6.995 48.952 30.90 B ATOM 2590 CG GLN 223 6.995 48.952 30.90 B ATOM 2590 CG GLN 223 6.995 48.952 30.90 B ATOM 2590 CG GLN 223 6.995 48.952 30.90 B ATOM 2590 CG GLN 223 6.995 48.952 30.90 B ATOM 2590 CG GLN 223 6.995 48.952 30.90 B ATOM 2590 CG GLN 223 6.995 48.952 30		ATOM		CA	GLY	221	6.004	53.171			
ATOM 2576 O GILY 221 7.085 51.463 36.277 1.00 41.96 B ATOM 2578 H LEU 222 5.94.4 50.823 34.422 1.00 37.83 B ATOM 2578 C LEU 222 6.288 49.402 34.564 1.00 41.13 B ATOM 2581 C G LEU 222 6.288 49.402 34.564 1.00 41.13 B ATOM 2581 C G LEU 222 4.063 34.564 1.00 41.13 B ATOM 2581 C G LEU 222 4.063 34.564 1.00 41.13 B ATOM 2582 CD1 LEU 222 4.063 35.102 1.00 44.76 B ATOM 2584 C LEU 222 3.259 46.917 34.509 1.00 44.76 B ATOM 2584 C LEU 222 3.259 46.917 34.509 1.00 44.76 B ATOM 2584 C LEU 222 7.506 49.093 35.106 1.00 47.26 B ATOM 2584 C LEU 222 7.506 49.093 37.077 1.00 39.93 B ATOM 2585 C D LEU 222 8.193 48.099 33.931 1.00 42.67 B ATOM 2586 N GLN 223 7.155 59.49.954 32.723 1.00 35.86 B ATOM 2589 C G GLN 223 7.155 59.49.954 32.723 1.00 35.86 B ATOM 2589 C G GLN 223 7.155 59.71 32.601 1.00 40.77 B ATOM 2589 C G GLN 223 8.489 49.825 31.815 1.00 35.26 B ATOM 2589 C G GLN 223 6.995 49.983 30.391 1.00 35.26 B ATOM 2589 C G GLN 223 6.995 49.982 30.328 0.01 44.99 B ATOM 2595 HEZZ C GLN 223 6.995 49.982 30.328 0.01 44.99 B ATOM 2595 HEZZ GLN 223 6.995 49.982 30.328 0.01 44.99 B ATOM 2595 HEZZ GLN 223 6.995 49.982 30.328 0.01 44.99 B ATOM 2595 HEZZ GLN 223 6.995 49.982 30.328 0.01 44.99 B ATOM 2595 HEZZ GLN 223 6.995 49.982 30.328 0.01 44.99 B ATOM 2595 HEZZ GLN 223 6.995 49.982 30.328 0.01 44.90 B ATOM 2595 HEZZ GLN 223 6.995 49.983 31.60 0.00 B ATOM 2595 HEZZ GLN 223 6.995 49.983 31.60 0.00 B ATOM 2595 HEZZ GLN 223 5.997 47.364 27.601 1.00 20.10 B ATOM 2595 HEZZ GLN 223 5.997 47.364 37.601 1.00 20.10 B ATOM 2596 C GLN 223 5.997 47.364 37.601 31.999 1.00 32.91 B ATOM 2596 C GLN 223 5.997 47.364 37.601 31.00 20.10 B ATOM 2596 C GLN 223 5.995 49.983 31.601 1.00 20.00 B ATOM 2596 C GLN 223 5.995 49.983 31.601 1.00 20.00 B ATOM 2596 C GLN 223 5.995 49.983 31.601 1.00 20.00 B ATOM 2596 C GLN 223 5.995 49.983 31.601 1.00 20.00 B ATOM 2596 C GLN 223 5.995 49.983 37.995 40.00 20.10 B ATOM 2596 C GLN 223 5.995 49.993 30.995 40.00 20.00 B ATOM 2596 C GLN 223 5.995 49.993 30.995 40.00 20.00 B ATOM 2596 C GLN 223 5.995 49.993 30.995 40.00 20.0			2575	C	GLY	221	6.406	51.736	35.283		
ATOM 2577 N LEU 222 5.974 50.822 3.4.422 1.00 37.83 B ATOM 2579 CA LEU 222 6.288 49.402 3.4.564 1.00 0.00 B ATOM 2580 CB LEU 222 6.288 49.402 3.4.564 1.00 41.13 B ATOM 2580 CB LEU 222 5.102 48.543 34.106 1.00 42.59 B ATOM 2581 CG LEU 222 4.4.67 47.593 34.106 1.00 42.59 B ATOM 2583 CD2 LEU 222 3.2.59 46.917 34.509 1.00 44.76 B ATOM 2583 CD2 LEU 222 3.2.59 46.917 34.509 1.00 44.76 B ATOM 2585 CD LEU 222 7.7506 49.093 33.707 1.00 39.93 B ATOM 2585 CD LEU 222 7.7556 49.093 33.707 1.00 39.93 B ATOM 2586 CA GLN 223 7.755 49.954 32.723 1.00 35.86 B ATOM 2588 CA GLN 223 7.755 49.954 32.723 1.00 35.86 B ATOM 2589 CG GLN 223 8.8.93 49.825 31.815 1.00 35.26 B ATOM 2590 CG GLN 223 8.8.93 49.825 31.815 1.00 35.26 B ATOM 2590 CG GLN 223 8.8.93 49.825 31.815 1.00 35.26 B ATOM 2590 CG GLN 223 6.839 47.821 29.332 0.01 44.07 B B ATOM 2590 CG GLN 223 6.839 47.821 29.332 0.01 44.07 B B ATOM 2590 CG GLN 223 6.839 47.821 29.332 0.01 44.07 B B ATOM 2590 CG GLN 223 7.165 49.954 32.723 0.00 37.16 B B ATOM 2590 CG GLN 223 7.86 8.95 48.952 30.328 0.01 44.07 B B ATOM 2590 CG GLN 223 7.86 8.954 49.479 30.396 1.00 37.16 B B ATOM 2590 CG GLN 223 7.86 8.954 49.479 30.396 1.00 37.16 B B ATOM 2590 CG GLN 223 7.86 8.954 49.479 30.396 1.00 37.16 B B ATOM 2590 CG GLN 223 7.86 8.954 49.479 30.396 1.00 37.16 B B ATOM 2590 CG GLN 223 7.86 8.954 49.479 30.396 1.00 37.16 B B ATOM 2590 CG GLN 223 7.86 8.954 49.479 30.396 1.00 37.16 B B ATOM 2590 CG GLN 223 7.86 8.954 49.479 30.396 1.00 37.16 B B ATOM 2590 CG GLN 223 7.86 8.954 49.479 30.396 1.00 37.16 B B ATOM 2590 CG GLN 223 7.86 8.954 49.479 30.396 1.00 37.16 B B ATOM 2590 CG GLN 223 7.86 8.954 49.479 30.396 1.00 37.16 B B ATOM 2590 CG GLN 223 7.86 8.959 47.821 29.332 0.01 44.07 B B ATOM 2590 CG GLN 223 7.86 8.959 47.821 29.332 0.01 44.07 B B ATOM 2590 CG GLN 223 7.86 8.995 48.895 29.332 0.01 44.07 B B ATOM 2590 CG GLN 223 7.86 8.995 48.895 29.332 0.01 44.07 B B ATOM 2590 CG GLN 223 7.894 1.804 1.00 0.00 B ATOM 2590 CG GLN 223 7.894 1.804 1.00 0.00 B ATOM 2590 CG GLN 223 7.894 1.804 1.804 1.00 0.00 B				0	GLY	221	7.085	51.463	36.277		
15						222	5.974	50.822	34.422	1.00 37.83	
ATOM 2599 CB LEU 222 6.288 49.402 34.564 1.00 41.13 B ATOM 2580 CG LEU 222 4.467 47.593 34.103 1.00 42.69 B ATOM 2581 CG LEU 222 4.467 47.593 34.103 1.00 42.69 B ATOM 2582 CDI LEU 222 4.467 47.593 35.126 1.00 48.06 B ATOM 2583 CDZ LEU 222 3.259 46.917 34.509 1.00 44.76 B ATOM 2585 ON LEU 222 8.193 48.099 33.707 1.00 39.93 B ATOM 2585 ON LEU 222 7.756 49.993 33.791 1.00 42.67 B ATOM 2586 N GLN 223 7.755 49.954 32.723 1.00 35.86 B ATOM 2587 H GLN 223 7.755 49.954 32.723 1.00 35.86 B ATOM 2588 CA GLN 223 8.849 49.479 30.396 1.00 47.16 B ATOM 2589 CB GLN 223 8.849 49.479 30.396 1.00 37.16 B ATOM 2599 CB GLN 223 6.839 47.821 29.332 0.01 44.07 B ATOM 2599 CB GLN 223 6.839 47.821 29.332 0.01 44.07 B ATOM 2599 CB GLN 223 6.839 47.821 29.332 0.01 44.07 B ATOM 2599 CB GLN 223 6.109 48.080 28.253 0.01 44.90 B ATOM 2599 CB GLN 223 6.109 48.080 28.253 0.01 44.90 B ATOM 2599 CB GLN 223 6.997 47.364 27.601 1.00 0.00 B ATOM 2599 CB GLN 223 5.997 47.364 27.601 1.00 0.00 B ATOM 2599 CB GLN 223 5.997 47.364 27.601 1.00 0.00 B ATOM 2599 H CPLZ GLN 223 5.997 47.364 27.601 1.00 0.00 B ATOM 2599 N THR 224 11.378 50.218 32.044 1.00 0.00 B ATOM 2599 N THR 224 11.378 50.218 32.044 1.00 0.00 B ATOM 2599 N THR 224 11.378 50.218 32.044 1.00 0.00 B ATOM 2599 N THR 224 11.378 50.218 32.044 1.00 0.00 B ATOM 2599 N THR 224 11.378 50.218 32.044 1.00 0.00 B ATOM 2600 CG THR 224 11.378 50.218 32.044 1.00 0.00 B ATOM 2600 CG THR 224 11.378 50.218 32.044 1.00 0.00 B ATOM 2600 CG THR 224 11.378 50.218 32.044 1.00 0.00 B ATOM 2600 CG THR 224 11.378 50.218 32.044 1.00 0.00 B ATOM 2600 CG THR 224 11.378 50.218 32.044 1.00 0.00 B ATOM 2600 CG THR 224 11.378 50.218 32.044 1.00 0.00 B ATOM 2600 CG THR 224 11.378 50.218 32.044 1.00 0.00 B ATOM 2600 CG THR 224 11.378 50.218 32.044 1.00 0.00 B ATOM 2600 CG THR 224 11.378 50.218 32.044 1.00 0.00 B ATOM 2600 CG THR 224 11.378 50.218 32.044 1.00 0.00 B ATOM 2600 CG THR 224 11.378 50.218 32.044 1.00 0.00 CG THR 224 11.378 50.218 31.441 1.00 0.00 0.00 B ATOM 2600 CG THR 224 11.379 52.00 30.00 1.00 1.00 2.00 B ATO	15						5.424	51.109	33.665		В
ATOM 2580 CB LEU 222	10						6.288	49.402	34.564	1.00 41.13	В
ATOM 2581 CG LEU 222								48.543	34.103	1.00 42.69	В
TOM 2582 CD1 LEU 222								47.593	35.126	1.00 48.06	В
ATOM 2583 CD2 LEU 222 3.259 46.917 34.509 1.00 44.76 B							4.063	48.361	36.380	1.00 47.26	В
ATOM 2584 C LEU 222 7.506 49.093 33.707 1.00 39.93 B	20								34.509	1.00 44.76	В
ATOM 2585 O LEU 222 8.193 48.099 33.931 1.00 42.67 B	20								33.707	1.00 39.93	В
ATOM 2586 N CLN 223 7.755 49.954 32.723 1.00 30.00 B									33.931	1.00 42.67	В
ATOM								49.954	32.723	1.00 35.86	В
25 ATOM 2588 CA CLIN 223 88.893 49.825 31.815 1.00 35.26 B ATOM 2589 CG GIN 223 6.495 48.952 30.328 0.01 41.99 B ATOM 2590 CG GIN 223 6.893 47.821 29.332 0.01 44.07 B ATOM 2590 CEI GIN 223 6.893 47.821 29.332 0.01 44.07 B ATOM 2590 CEI GIN 223 6.893 47.821 29.332 0.01 44.07 B ATOM 2590 CEI GIN 223 6.893 47.821 29.332 0.01 44.07 B ATOM 2590 CEI GIN 223 6.109 48.080 28.253 0.01 45.41 B ATOM 2595 HE21 GIN 223 5.707 48.966 28.253 0.01 45.41 B ATOM 2595 HE22 GIN 223 5.997 47.364 27.601 1.00 0.00 B ATOM 2595 HE22 GIN 223 5.997 47.364 27.601 1.00 0.00 B ATOM 2595 HE22 GIN 223 5.997 47.364 27.601 1.00 0.00 B ATOM 2599 B ATOM 2597 O GIN 223 9.0642 51.160 31.799 1.00 32.91 B ATOM 2598 N THR 224 11.378 50.218 31.641 1.00 24.75 B ATOM 2599 H THR 224 11.378 50.218 31.641 1.00 24.75 B ATOM 2599 H THR 224 11.378 50.218 32.084 1.00 0.00 B ATOM 2600 CA THR 224 11.378 50.218 32.084 1.00 0.00 B ATOM 2600 CA THR 224 11.378 50.218 32.084 1.00 25.14 B ATOM 2601 CB THR 224 11.316 52.047 32.881 1.00 22.33 B ATOM 2601 CB THR 224 12.548 51.636 34.177 1.00 22.13 B ATOM 2602 CGI THR 224 12.548 51.636 34.177 1.00 22.13 B ATOM 2604 CG2 THR 224 12.548 51.636 34.177 1.00 22.13 B ATOM 2604 CG2 THR 224 12.548 51.636 34.177 1.00 22.45 B ATOM 2605 C THR 224 12.955 52.644 30.590 1.00 16.21 B ATOM 2605 C THR 224 12.955 52.644 30.590 1.00 24.48 B ATOM 2605 C THR 224 13.850 53.315 33.025 1.00 16.21 B ATOM 2605 C THR 224 13.850 53.315 33.025 1.00 16.21 B ATOM 2605 C THR 224 12.955 53.688 30.027 1.00 24.48 B ATOM 2605 C THR 224 12.955 53.688 30.027 1.00 24.48 B ATOM 2605 C THR 224 13.957 53.688 30.027 1.00 24.48 B ATOM 2605 C THR 224 13.957 53.688 30.027 1.00 24.48 B ATOM 2605 C THR 224 13.957 53.688 30.027 1.00 24.48 B ATOM 2605 C THR 225 12.015 54.181 22.955 10.00 30.042 1.00 24.48 B ATOM 2605 C THR 224 13.957 53.688 30.027 1.00 24.48 B ATOM 2605 C THR 225 12.565 53.688 30.027 1.00 24.48 B ATOM 2605 C THR 225 12.565 53.688 30.027 1.00 24.48 B ATOM 2605 C THR 225 12.565 53.688 30.027 1.00 20.26 B ATOM 2605 C THR 226 14.433 54.221 29.359 1.00 0.00 B AT									32.601	1.00 0.00	В
ATOM 2589 CB GLN 223 8,419 49,479 30,396 1.00 37.16 B ATOM 2591 CD GLN 223 6,839 48.952 30,328 0.01 41.99 B ATOM 2591 CD GLN 223 6,839 47.821 29.332 0.01 44.07 B ATOM 2591 CD GLN 223 7.368 46.726 29.528 0.01 44.07 B ATOM 2593 NE2 GLN 223 7.368 46.726 29.528 0.01 44.07 B ATOM 2593 NE2 GLN 223 5.707 48.966 28.138 1.00 0.00 B ATOM 2595 NE2 GLN 223 5.707 48.966 28.138 1.00 0.00 B ATOM 2595 PEL22 GLN 223 5.707 48.966 28.138 1.00 0.00 B ATOM 2595 PEL22 GLN 223 5.707 48.966 28.138 1.00 0.00 B ATOM 2595 C GLN 223 9.642 51.160 31.799 1.00 32.91 B ATOM 2595 N THR 224 10.961 51.969 31.969 1.00 30.99 B ATOM 2597 N THR 224 10.961 51.096 31.969 1.00 0.00 B ATOM 2599 N THR 224 11.378 50.218 32.084 1.00 0.00 B ATOM 2590 N THR 224 11.378 50.218 32.084 1.00 0.00 B ATOM 2590 CA THR 224 11.814 52.283 31.989 1.00 25.14 B ATOM 2600 CA THR 224 11.814 52.283 31.989 1.00 25.14 B ATOM 2602 CGI THR 224 12.548 51.656 34.177 1.00 22.14 B ATOM 2603 HGI THR 224 12.548 51.656 34.177 1.00 22.13 B ATOM 2603 CG THR 224 12.548 51.656 34.177 1.00 22.14 B ATOM 2605 C THR 224 12.548 51.656 34.177 1.00 22.14 B ATOM 2605 C THR 224 12.548 51.656 34.177 1.00 22.14 B ATOM 2605 C THR 224 12.548 51.656 34.177 1.00 22.14 B ATOM 2605 C THR 224 12.548 51.656 34.177 1.00 22.45 B ATOM 2605 C THR 224 12.548 51.656 34.177 1.00 22.45 B ATOM 2605 C THR 224 12.548 51.656 34.177 1.00 22.45 B ATOM 2605 C THR 224 12.548 51.656 34.177 1.00 22.45 B ATOM 2605 C THR 224 12.548 51.656 34.177 1.00 22.45 B ATOM 2605 C THR 224 12.295 52.644 30.550 1.00 16.21 B ATOM 2605 C THR 224 12.295 52.647 30.555 1.00 16.21 B ATOM 2605 C THR 224 12.295 53.668 30.027 1.00 23.62 B ATOM 2605 C THR 224 12.295 53.668 30.027 1.00 23.62 B ATOM 2605 C THR 224 12.295 53.668 30.027 1.00 23.42 B ATOM 2605 C THR 225 10.098 52.166 25.621 1.00 22.45 B ATOM 2605 C THR 225 10.098 52.166 25.621 1.00 20.00 B ATOM 2605 C THR 225 10.566 55.667 29.90 10.00 20.00 B ATOM 2611 CG MET 225 10.566 55.667 29.90 10.00 20.00 B ATOM 2620 CG THR 226 15.668 55.667 29.90 10.00 20.00 B ATOM 2620 CG THR 226 15.668 55.657 29.	25									1.00 35.26	В
ATOM	23							49.479		1.00 37.16	В
ATOM 2591 CD GLN 223 6.839 47.821 29.332 0.01 44.07 B								48.952		0.01 41.99	В
ATOM 2592 OE1 GLN 223 7.368 46.726 29.528 0.01 45.41 B ATOM 2593 NE2 GLN 223 5.707 48.966 28.138 1.00 0.00 B ATOM 2595 HE22 GLN 223 5.707 48.966 28.138 1.00 0.00 B ATOM 2595 HE22 GLN 223 5.997 47.364 27.601 1.00 0.00 B ATOM 2596 C GLN 223 9.642 51.160 31.799 1.00 32.91 B ATOM 2597 O GLN 223 9.642 51.160 31.799 1.00 32.91 B ATOM 2598 N THR 224 11.378 50.218 31.641 1.00 24.75 B ATOM 2599 H THR 224 11.378 50.218 32.084 1.00 0.00 B ATOM 2599 H THR 224 11.378 50.218 32.084 1.00 0.00 B ATOM 2600 CA THR 224 11.378 50.218 32.084 1.00 22.33 B ATOM 2601 CB THR 224 13.016 52.047 32.891 1.00 22.33 B ATOM 2602 OG1 THR 224 12.548 51.636 34.177 1.00 22.14 B ATOM 2604 CG2 THR 224 12.548 51.636 34.177 1.00 22.14 B ATOM 2605 C THR 224 13.916 50.347 33.055 1.00 16.21 B ATOM 2605 C THR 224 13.917 52.010 30.042 1.00 24.48 B ATOM 2607 N MET 225 11.695 53.688 30.027 1.00 24.48 B ATOM 2609 CA MET 225 11.095 53.688 30.027 1.00 24.48 B ATOM 2609 CA MET 225 11.095 53.257 28.063 1.00 24.498 B ATOM 2610 CB MET 225 10.078 54.410 27.944 1.00 20.26 B ATOM 2611 CG MET 225 10.078 54.410 27.944 1.00 20.26 B ATOM 2612 CB MET 225 10.078 54.410 27.944 1.00 20.26 B ATOM 2612 CB MET 225 10.078 54.410 27.944 1.00 20.26 B ATOM 2612 CB MET 225 10.078 54.410 27.944 1.00 20.26 B ATOM 2612 CB MET 225 10.078 54.410 27.944 1.00 20.26 B ATOM 2613 CB MET 225 10.078 54.410 27.944 1.00 20.26 B ATOM 2614 CB MET 225 12.562 56.408 27.661 1.00 27.978 B ATOM 2627 CB THR 226 14.477 55.19 29.062 1.00										0.01 44.07	В
Section									29.528	0.01 45.41	В
ATOM 2595 HE21 GIN 223 5.707 48.966 28.138 1.00 0.00 B ATOM 2595 HE22 GLN 223 5.997 47.364 27.601 1.00 0.00 B ATOM 2596 C GIN 223 9.642 51.160 31.799 1.00 32.91 B ATOM 2598 N THR 224 10.961 51.096 31.969 1.00 32.91 B ATOM 2599 H THR 224 11.378 50.218 32.084 1.00 0.00 B ATOM 2599 H THR 224 11.378 50.218 32.084 1.00 0.00 B ATOM 2600 CA THR 224 11.814 52.283 31.999 1.00 22.13 B ATOM 2600 CA THR 224 11.814 52.283 31.999 1.00 22.33 B ATOM 2602 OG1 THR 224 13.016 52.047 32.891 1.00 22.33 B ATOM 2603 HG1 THR 224 13.016 52.047 32.891 1.00 22.14 B ATOM 2603 HG1 THR 224 12.548 51.636 34.177 1.00 22.14 B ATOM 2604 CG2 THR 224 13.850 53.315 33.025 1.00 16.21 B ATOM 2606 C THR 224 13.850 53.315 33.025 1.00 16.21 B ATOM 2606 O THR 224 13.975 52.040 30.042 1.00 22.448 B ATOM 2606 O THR 224 13.197 52.010 30.042 1.00 22.48 B ATOM 2606 C THR 224 13.197 52.010 30.042 1.00 22.48 B ATOM 2607 N MET 225 11.695 53.688 30.027 1.00 23.62 B ATOM 2608 H MET 225 11.695 53.688 30.027 1.00 23.62 B ATOM 2608 CB MET 225 11.019 54.182 30.535 1.00 10.0 24.48 B ATOM 2606 CB MET 225 10.008 54.118 28.673 1.00 21.06 B ATOM 2610 CB MET 225 10.009 54.182 30.535 1.00 21.06 B ATOM 2611 CB MET 225 10.009 54.182 30.535 1.00 22.46 B ATOM 2612 CB MET 225 10.009 54.182 30.535 1.00 22.66 B ATOM 2613 CE MET 225 10.098 52.166 25.621 1.00 25.64 B ATOM 2616 N THR 226 14.177 55.119 29.062 1.00 22.45 B ATOM 2616 N THR 226 14.177 55.119 29.062 1.00 22.97 B ATOM 2617 H THR 266 14.177 55.119 29.062 1.00 22.97 B ATOM 2618 CA THR 226 15.483 55.327 28.629 1.00 20.97 B ATOM 2619 CB THR 226 15.483 55.327 28.629 1.00 20.97 B ATOM 2610 N THR 266 14.177 55.670 29.700 1.00 11.05 B ATOM 2621 H THR 266 15.481 56.836 27.767 1.00 17.23 B ATOM 2625 N ALA 227 15.562 56.028 26.717 1.00 13.45 B ATOM 2626 CG2 THR 226 15.485 55.431 24.382 1.00 10.00 B ATOM 2627 CA ALA 227 15.566 55.658 25.331 1.00 21.16 B ATOM 2628 C C HAA 227 15.566 55.658 25.331 1.00 21.16 B ATOM 2628 C C ALA 227 15.566 55.057 26.849 1.00 0.00 B ATOM 2626 H ALA 227 15.566 55.057 26.849 1.00 0.00 G ATOM 2628 C B ALA 22	30									0.01 44.90	В
ATOM 2595 HE22 GLN 223 5.997 47,364 27.601 1.00 0.00 B ATOM 2597 O GLN 223 9.642 51.160 31.799 1.00 32.91 B B ATOM 2598 N THR 224 10.961 51.096 31.969 1.00 30.99 B ATOM 2598 N THR 224 11.378 50.218 32.084 1.00 0.00 B ATOM 2600 CA THR 224 11.378 50.218 32.084 1.00 0.00 B ATOM 2601 CB THR 224 11.378 50.218 32.084 1.00 25.14 B ATOM 2602 OG1 THR 224 12.548 51.636 34.177 1.00 22.14 B ATOM 2603 HG1 THR 224 12.548 51.636 34.177 1.00 22.14 B ATOM 2603 HG1 THR 224 12.548 51.636 34.177 1.00 22.14 B ATOM 2603 HG1 THR 224 12.548 51.636 34.091 1.00 0.00 B ATOM 2605 C THR 224 13.850 53.315 33.025 1.00 16.21 B ATOM 2606 O THR 224 13.850 53.315 33.025 1.00 24.48 B ATOM 2606 O THR 224 13.850 53.315 33.025 1.00 24.48 B ATOM 2606 O THR 224 13.197 52.610 30.042 1.00 22.45 B ATOM 2608 H MET 225 11.695 53.688 30.027 1.00 23.62 B ATOM 2608 H MET 225 11.695 53.688 30.027 1.00 23.62 B ATOM 2610 CG MET 225 10.0708 54.410 27.944 1.00 20.26 B ATOM 2611 CG MET 225 10.300 51.746 27.262 1.00 25.64 B ATOM 2613 CG MET 225 10.300 51.746 27.262 1.00 25.64 B ATOM 2613 CG MET 225 10.300 51.746 27.262 1.00 23.42 B ATOM 2613 CG MET 225 12.562 56.408 28.185 1.00 23.42 B ATOM 2613 CG MET 225 12.562 56.408 28.185 1.00 23.42 B ATOM 2613 CG MET 225 12.562 56.408 28.185 1.00 23.42 B ATOM 2619 CB THR 226 14.477 55.119 29.062 1.00 23.42 B ATOM 2619 CB THR 226 16.487 55.515 31.542 1.00 10.00 10.00 B ATOM 2620 CG THR 226 15.468 56.676 29.700 1.00 20.16 B ATOM 2622 CG2 THR 226 15.469	50										В
ATOM 2596 C GLN 223 9.642 51.160 31.799 1.00 32.91 B ATOM 2598 N THR 224 10.961 51.096 31.969 1.00 30.99 B ATOM 2599 H THR 224 11.814 52.283 31.994 1.00 24.75 B ATOM 2600 CA THR 224 11.814 52.283 31.994 1.00 0.00 B ATOM 2601 CB THR 224 13.016 52.047 32.891 1.00 22.33 B ATOM 2602 OG1 THR 224 12.548 51.636 34.177 1.00 22.14 B ATOM 2603 HG1 THR 224 12.548 51.636 34.177 1.00 22.14 B ATOM 2606 CC THR 224 12.042 50.826 34.091 1.00 0.00 B ATOM 2606 CC THR 224 13.850 53.315 33.025 1.00 16.21 B ATOM 2606 C THR 224 12.295 52.644 30.590 1.00 24.48 B ATOM 2606 C THR 224 12.295 52.644 30.590 1.00 22.45 B ATOM 2606 C THR 224 13.197 52.010 30.042 1.00 22.45 B ATOM 2606 C THR 224 13.197 52.010 30.042 1.00 22.45 B ATOM 2606 C THR 224 13.197 52.010 30.042 1.00 22.45 B ATOM 2608 H MET 225 11.695 53.688 30.027 1.00 23.62 B ATOM 2609 CA MET 225 11.095 53.688 30.027 1.00 23.62 B ATOM 2609 CA MET 225 11.095 53.688 30.027 1.00 23.62 B ATOM 2611 CG MET 225 12.015 54.118 28.673 1.00 23.62 B ATOM 2612 CB MET 225 10.098 52.166 25.621 1.00 24.98 B ATOM 2613 CC MET 225 10.305 51.010 20.00 B ATOM 2614 C MET 225 10.305 51.010 20.00 B ATOM 2615 O MET 225 10.305 51.010 20.00 B ATOM 2616 N THR 226 14.177 55.119 29.062 1.00 22.97 B ATOM 2616 N THR 226 14.177 55.119 29.062 1.00 22.97 B ATOM 2617 H THR 266 14.177 55.119 29.062 1.00 22.97 B ATOM 2618 CA THR 226 15.163 56.187 29.111 1.00 18.05 B ATOM 2619 CB THR 226 15.413 56.836 27.767 1.00 13.45 B ATOM 2620 OG1 THR 226 15.415 56.836 30.017 1.00 13.45 B ATOM 2621 HG1 THR 226 15.489 55.535 31.542 1.00 13.45 B ATOM 2622 CG2 THR 226 15.489 55.535 31.542 1.00 13.45 B ATOM 2623 C THR 226 15.489 55.535 31.542 1.00 13.45 B ATOM 2624 HG1 THR 226 15.489 55.535 31.542 1.00 13.45 B ATOM 2625 N ALA 227 15.546 56.028 26.77 1.00 13.67 B ATOM 2626 THR 226 15.489 55.535 31.542 1.00 13.45 B ATOM 2627 C A ALA 227 15.562 55.657 28.89 1.00 0.00 B ATOM 2628 CB ALA 227 15.566 55.557 28.39 1.00 0.00 C.00 B ATOM 2628 CB ALA 227 15.566 55.557 28.89 1.00 0.00 C.00 B ATOM 2623 N ALA 227 15.566 55.557 28.89 1.00 0.00 C.00 B AT										1.00 0.00	В
ATOM 2597 O GLN 223 9.032 52.218 31.641 1.00 24.75 B										1.00 32.91	В
ATOM 2598 N THR 224 10.961 51.096 31.969 1.00 30.99 B ATOM 2599 H THR 224 11.378 50.218 32.084 1.00 0.00 B ATOM 2601 CR THR 224 11.378 50.218 32.084 1.00 25.14 B ATOM 2601 CR THR 224 11.378 50.218 32.084 1.00 25.14 B ATOM 2601 CR THR 224 12.548 51.636 34.177 1.00 22.33 B ATOM 2602 OG1 THR 224 12.548 51.636 34.177 1.00 22.14 B ATOM 2603 HG1 THR 224 12.548 51.636 34.177 1.00 22.14 B ATOM 2604 CG2 THR 224 12.548 51.636 34.091 1.00 0.00 B ATOM 2605 C THR 224 12.549 52.644 30.590 1.00 24.48 B ATOM 2605 C THR 224 12.295 52.644 30.590 1.00 24.48 B ATOM 2607 N MET 225 11.695 53.315 30.027 1.00 22.45 B ATOM 2607 N MET 225 11.695 53.688 30.027 1.00 22.45 B ATOM 2608 H MET 225 11.695 53.688 30.027 1.00 23.62 B ATOM 2610 CB MET 225 12.015 54.118 28.673 1.00 0.00 B ATOM 2611 CG MET 225 9.719 53.257 28.063 1.00 20.26 B ATOM 2611 CG MET 225 10.320 51.746 27.262 1.00 25.64 B ATOM 2613 CE MET 225 10.320 51.746 27.262 1.00 25.64 B ATOM 2616 N THR 226 14.477 55.119 29.062 1.00 22.97 B ATOM 2616 N THR 226 14.477 55.119 29.062 1.00 22.97 B ATOM 2616 N THR 226 14.477 55.119 29.062 1.00 22.97 B ATOM 2619 CB THR 226 14.477 55.119 29.062 1.00 22.97 B ATOM 2620 CG1 THR 226 15.488 56.826 30.012 1.00 13.67 B ATOM 2620 CG1 THR 226 15.488 56.826 30.012 1.00 13.67 B ATOM 2620 CG2 THR 226 15.488 56.826 30.012 1.00 13.67 B ATOM 2624 C THR 226 15.488 56.836 30.012 1.00 13.67 B ATOM 2624 C THR 226 15.486 56.588 25.381 1.00 15.63 B ATOM 2626 C ALA 227 15.566 56.028 26.7										1.00 24.75	В
ATOM 2599 H THR 224 11.378 50.218 32.084 1.00 0.00 B ATOM 2601 CB THR 224 13.016 52.047 32.891 1.00 25.14 B ATOM 2600 CA THR 224 13.016 52.047 32.891 1.00 22.13 B ATOM 2602 OG1 THR 224 12.548 51.636 34.177 1.00 22.14 B ATOM 2603 HG1 THR 224 12.548 51.636 34.177 1.00 22.14 B ATOM 2603 HG1 THR 224 12.548 51.636 34.177 1.00 22.14 B ATOM 2603 C THR 224 12.295 52.644 30.991 1.00 0.00 B ATOM 2605 C THR 224 12.295 52.644 30.991 1.00 22.45 B ATOM 2606 O THR 224 13.850 53.315 33.025 1.00 16.21 B ATOM 2606 O THR 224 13.197 52.010 30.042 1.00 22.45 B ATOM 2608 H MET 225 11.695 53.688 30.027 1.00 22.45 B ATOM 2608 H MET 225 11.695 53.688 30.027 1.00 23.62 B ATOM 2610 CB MET 225 12.015 54.118 28.673 1.00 21.06 B ATOM 2610 CB MET 225 12.015 54.118 28.673 1.00 21.06 B ATOM 2610 CB MET 225 10.708 54.440 27.944 10.00 20.26 B ATOM 2611 CG MET 225 9.719 53.257 28.063 1.00 24.98 B ATOM 2612 SD MET 225 10.309 52.166 25.621 1.00 19.80 B ATOM 2613 CE MET 225 12.943 55.327 28.629 1.00 20.97 B ATOM 2616 N THR 226 14.433 54.221 29.359 1.00 20.97 B ATOM 2616 N THR 226 14.433 54.221 29.359 1.00 0.00 B ATOM 2617 H THR 226 14.433 54.221 29.359 1.00 0.00 B ATOM 2619 CB MET 225 12.562 56.408 28.185 1.00 23.42 B ATOM 2619 CB THR 226 14.433 54.221 29.359 1.00 0.00 B ATOM 2619 CB THR 226 15.413 56.826 30.012 1.00 13.45 B ATOM 2622 CG2 THR 226 15.463 56.826 30.012 1.00 13.45 B ATOM 2621 HG1 THR 226 15.463 56.826 30.012 1.00 15.25 B ATOM 2622 CG2 THR 226 15.463 56.826 30.012 1.00 15.25 B ATOM 2623 C THR 226 15.461 56.826 27.767 1.00 17.23 B ATOM 2624 N ALA 227 15.546 56.028 26.717 1.00 15.63 B ATOM 2625 N ALA 227 15.546 56.028 26.717 1.00 15.63 B ATOM 2623 C B ALA 227 15.546 56.028 26.717 1.00 15.63 B ATOM 2623 C B ALA 227 15.546 56.028 26.717 1.00 15.63 B ATOM 2623 C B ALA 227 15.546 56.028 26.717 1.00 15.63 B ATOM 2623 C B ALA 227 15.546 56.028 26.717 1.00 15.63 B ATOM 2623 C B ALA 227 15.546 56.028 26.717 1.00 15.63 B ATOM 2623 C B ALA 227 15.546 56.028 26.717 1.00 13.47 B ATOM 2633 CA ALB 227 15.546 56.028 26.717 1.00 20.04 B ATOM 2633 CA ALB	35										В
ATOM 2601 CB THR 224 11.814 52.283 31.989 1.00 25.14 B ATOM 2601 CB THR 224 13.016 52.047 32.891 1.00 22.33 B ATOM 2602 OG1 THR 224 12.548 51.636 34.177 1.00 22.14 B ATOM 2603 HG1 THR 224 12.042 50.826 34.091 1.00 0.00 B ATOM 2604 CG2 THR 224 13.850 53.315 33.025 1.00 16.21 B ATOM 2605 C THR 224 12.295 52.644 30.590 1.00 24.48 B ATOM 2606 O THR 224 13.197 52.010 30.042 1.00 22.45 B ATOM 2607 N MET 225 11.695 53.688 30.027 1.00 23.62 B ATOM 2608 H MET 225 11.695 53.688 30.027 1.00 23.62 B ATOM 2610 CB MET 225 12.015 54.118 28.673 1.00 21.06 B ATOM 2611 CG MET 225 12.015 54.118 28.673 1.00 21.06 B ATOM 2611 CG MET 225 10.708 54.102 29.794 1.00 20.26 B ATOM 2612 CB MET 225 10.320 51.746 27.944 1.00 20.26 B ATOM 2613 CE MET 225 10.988 52.166 25.621 1.00 19.80 B ATOM 2615 O MET 225 10.988 52.166 25.621 1.00 19.80 B ATOM 2616 N THR 226 14.177 55.119 29.062 1.00 23.42 B ATOM 2616 N THR 226 14.177 55.119 29.062 1.00 23.42 B ATOM 2618 CA THR 226 14.477 55.119 29.062 1.00 23.42 B ATOM 2619 CB THR 226 14.477 55.119 29.062 1.00 23.42 B ATOM 2618 CA THR 226 14.477 55.119 29.062 1.00 23.42 B ATOM 2618 CA THR 226 15.63 6.187 29.111 1.00 18.05 B ATOM 2621 HG1 THR 226 16.487 55.667 29.700 13.45 B ATOM 2621 HG1 THR 226 15.789 55.555 31.542 1.00 13.45 B ATOM 2622 CG2 THR 226 15.488 58.059 27.681 1.00 13.67 B ATOM 2624 O THR 226 15.488 58.059 27.681 1.00 13.67 B ATOM 2624 O THR 226 15.488 58.059 27.681 1.00 13.67 B ATOM 2626 H ALA 227 15.566 56.088 26.777 1.00 13.67 B ATOM 2627 CA ALA 227 15.568 56.558 25.381 1.00 14.13 B ATOM 2629 C ALA 227 15.568 56.558 25.381 1.00 24.98 B ATOM 2631 N LEU 228 13.396 57.142 25.507 1.00 20.64 B ATOM 2632 H LEU 228 13.396 57.142 25.507 1.00 20.96 B ATOM 2632 C LEU 228 13.396 57.142 25.507 1.00 20.96 B ATOM 2633 CA LEU 228 13.396 57.142 25.507 1.00 20.96 B ATOM 2634 CB LEU 228 13.396 57.142 25.507 1.00 20.96 B ATOM 2635 CG LEU 228 10.988 56.379 25.927 1.00 0.00 B	33									1.00 0.00	В
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ATOM 2030 CD1 DEU 220 0.424 37.332 23.023 1.00 32.13 D											
		ATOM	∠036	CDI	∪ئىد.	240	0.424	21.332			_

	ATOM	2637	CD2	LEU	228	9.615	58.114	23.504	1.00 38.46	B
	ATOM	2638		LEU	228	12.349	59.295	25.577	1.00 20.10	В
	MOTA	2639		LEU	228	12.252	60.307	24.894	1.00 21.88	В
	ATOM	2640		GLY	229	12.551	59.309	26.895	1.00 17.67	В
5	ATOM	2641		GLY	229	12.605	58.462	27.383	1.00 0.00	В
5		2642		GLY	229	12.692	60.562	27.618	1.00 17.97	В
	MOTA			GLY	229	13.757	61.507	27.070	1.00 16.62	В
	ATOM	2643				13.737	62.691	26.912	1.00 16.95	В
	ATOM	2644		GLY	229		60.964	26.780	1.00 14.32	В
10	MOTA	2645		THR	230	14.934		26.780	1.00 0.00	В
10	ATOM	2646		THR	230	15.056	60.004			В
	\mathbf{M} OTA	2647		THR	230	16.052	61.731	26.255	1.00 13.65	
	ATOM	2648		THR	230	17.311	60.832	26.166	1.00 13.38	В
	ATOM	2649	OG1	THR	230	17.904	60.705	27.472	1.00 24.82	В
	ATOM	2650	HG1	THR	230	18.154	61.573	27.796	1.00 0.00	В
15	MOTA	2651	CG2	THR	230	18.331	61.413	25.195	1.00 16.39	В
	ATOM	2652	С	THR	230	15.722	62.276	24.865	1.00 16.56	В
	ATOM	2653	0	THR	230	15.923	63.452	24.580	1.00 14.40	В
	ATOM	2654	N	ASP	231	15.223	61.400	24.008	1.00 11.84	В
	ATOM	2655	H	ASP	231	15.086	60.475	24.300	1.00 0.00	В
20	MOTA	2656	CA	ASP	231	14.874	61.768	22.658	1.00 20.60	В
20	ATOM	2657	CB	ASP	231	14.400	60.521	21.911	1.00 23.12	В
	ATOM	2658	CG	ASP	231	14.401	60.703	20.421	1.00 23.62	В
		2659	OD1		231	15.451	61.103	19.881	1.00 26.06	В
	ATOM		OD1		231	13.363	60.450	19.788	1.00 19.93	В
25	MOTA	2660			231	13.772	62.832	22.663	1.00 21.87	В
25	MOTA	2661	C	ASP		13.772	63.799	21.898	1.00 20.06	В
	MOTA	2662	0	ASP	231		62.637	23.544	1.00 22.80	В
	MOTA	2663	N	THR	232	12.804		24.132	1.00 22.00	В
	ATOM	2664	H	THR	232	12.854	61.855			В
	ATOM	2665	CA	THR	232	11.670	63.537	23.681	1.00 22.51	
30	MOTA	2666	CB	THR	232	10.622	62.891	24.609	1.00 16.89	В
	MOTA	2667	OG1	THR	232	10.277	61.607	24.075	1.00 21.61	В
	ATOM	2668		THR	232	11.061	61.055	24.031	1.00 0.00	В
	ATOM	2669	CG2	THR	232	9.372	63.733	24.706	1.00 20.59	В
	ATOM	2670	С	THR	232	12.115	64.903	24.201	1.00 25.12	В
35	MOTA	2671	0	THR	232	11.601	65.952	23.782	1.00 25.24	В
	ATOM	2672	N	ALA	233	13.091	64.882	25.098	1.00 21.55	В
	ATOM	2673	H	ALA	233	13.457	64.019	25.383	1.00 0.00	В
	ATOM	2674	CA	ALA	233	13.635	66.099	25.674	1.00 17.44	В
	ATOM	2675	CB	ALA	233	14.498	65.746	26.865	1.00 17.88	В
40	ATOM	2676	Ċ	ALA	233	14.453	66.855	24.624	1.00 19.30	В
	ATOM	2677	Ō	ALA	233	14.394	68.075	24.533	1.00 18.02	В
	ATOM	2678	N	ARG	234	15.197	66.115	23.815	1.00 17.81	В
	MOTA	2679	H	ARG	234	15.196	65.141	23.918	1.00 0.00	В
	ATOM	2680	CA	ARG	234	16.008	66.723	22.774	1.00 23.98	В
45		2681	CB	ARG	234	16.857	65.647	22.087	1.00 25.23	В
43	MOTA	2682	CG	ARG	234	17.603	66.121	20.851	1.00 28.43	В
	MOTA			ARG	234	18.028	64.952	19.994	1.00 25.37	В
	ATOM	2683	CD			17.098	64.763	18.887	1.00 35.93	В
	ATOM	2684	NE	ARG	234	16.794	65.558	18.403	1.00 0.00	В
~^	MOTA	2685	HE	ARG	234		63.584	18.494	1.00 33.70	В
50	ATOM	2686	CZ	ARG	234	16.642			1.00 33.70	В
	ATOM	2687		ARG	234	17.036	62.484	19.120		В
	ATOM		HH11		234	17.678	62.545	19.883		
	MOTA		HH12		234	16.693	61.592	18.824	1.00 0.00	В
	MOTA	2690		ARG	234	15.786	63.507	17.488	1.00 34.51	В
55	MOTA	2691	HH21	ARG	234	15.485	64.341	17.023	1.00 0.00	В
	MOTA	2692	HH22	ARG	234	15.439	62.618	17.192	1.00 0.00	В
	ATOM	2693	C	ARG	234	15.071	67.341	21.747	1.00 23.74	В
	ATOM	2694	0	ARG	234	15.212	68.500	21.327	1.00 19.58	В
	MOTA	2695	N	LYS	235	14.099	66.535	21.360	1.00 22.00	В
60	ATOM	2696	H	LYS	235	14.031	65.650	21.771	1.00 0.00	В
00	ATOM	2697	CA	LYS	235	13.136	66.915	20.349	1.00 23.75	В
	ATOM	2698	CB	LYS	235	12.365	65.674	19.907	1.00 27.18	В
					235	12.541	65.347	18.434	1.00 39.17	В
	ATOM	2699	CG	LYS		12.541	63.848	18.206	1.00 40.05	В
/-	MOTA	2700	CD	LYS	235			18.179	1.00 40.03	В
65	MOTA	2701	CE	LYS	235	11.203	63.255		1.00 37.38	В
	MOTA	2702	NZ	LYS	235	11.172	62.081	17.280		ם ב
	MOTA	2703		LYS	235	11.846	61.365	17.624	1.00 0.00	В
	MOTA	2704		LYS	235	11.440	62.374	16.319	1.00 0.00	В
	MOTA	2705	HZ3	LYS	235	10.215	61.679	17.267	1.00 0.00	В
70	TI OH				225	10 150	67.992	20.776	1.00 14.66	P
, ,	ATOM	2706	C	LYS	235	12.159				В
, ,	ATOM	2706 2707		LYS LYS	235	11.854	68.867	20.003	1.00 15.35	В
, ,			0							

	ATOM	2710	CA G	LU	236	10.714	68.893	22.491	1.00 19.56	В
	MOTA	2711		LU	236	9.467	68.131	22.980	1.00 17.41	В
	MOTA	2712		LU	236	8.705	67.442	21.848	1.00 12.51	В
_	ATOM	2713		LU	236	7.734	66.365	22.326	1.00 20.23	В
5	ATOM	2714		LU	236	7.147	66.493	23.416	1.00 16.25	В
	ATOM	2715		LU	236	7.553	65.382	21.594	1.00 32.75	B B
	ATOM	2716		LU	236	11.134	69.905	23.552	1.00 19.85	B
	ATOM	2717		LU	236	10.740	71.074	23.477	1.00 22.57 1.00 13.82	B
4.0	ATOM	2718		ALA	237	11.923	69.477	24.530 24.528	1.00 13.82	В
10	ATOM	2719		ALA	237	12.243	68.552	25.609	1.00 0.00	В
	ATOM	2720		ALA	237	12.320	70.380	26.715	1.00 13.91	В
	MOTA	2721		ALA	237	13.031	69.599	25.185	1.00 12.47	В
	MOTA	2722		ALA	237	13.183	71.568		1.00 18.22	В
	ATOM	2723		ALA	237	13.067	72.647	25.754 24.202	1.00 20.95	В
15	MOTA	2724		PHE	238	14.050	71.372 70.495	23.767	1.00 20.00	В
	MOTA	2725		PHE	238	14.094 14.938	72.443	23.757	1.00 25.75	В
	MOTA	2726		PHE	238	14.936	72.443	23.737	1.00 21.10	В
	MOTA	2727		PHE	238	17.058	71.430	24.607	1.00 20.59	В
20	ATOM	2728		PHE	238	17.153	70.081	24.926	1.00 10.70	В
20	MOTA	2729 2730	CD1 E		238 238	17.690	72.378	25.425	1.00 17.21	B
	MOTA	2731	CE1 I		238	17.865	69.668	26.043	1.00 6.53	В
	ATOM	2732		PHE	238	18.407	71.981	26.548	1.00 9.67	В
	ATOM ATOM	2733		PHE	238	18.498	70.623	26.860	1.00 14.30	В
25	ATOM	2733		PHE	238	14.364	73.171	22.570	1.00 32.55	В
23	ATOM	2735		PHE	238	15.050	73.472	21.591	1.00 34.64	В
	ATOM	2736		THR	239	13.080	73.446	22.682	1.00 33.09	В
	ATOM	2737		THR	239	12.608	73.176	23.499	1.00 0.00	В
	ATOM	2738		THR	239	12.344	74.125	21.651	1.00 37.89	В
30	ATOM	2739		THR	239	10.911	73.562	21.597	1.00 34.14	В
50	MOTA	2740	OG1 5		239	10.907	72.378	20.797	1.00 44.61	В
	ATOM	2741	HG1		239	10.019	72.020	20.758	1.00 0.00	В
	MOTA	2742	CG2		239	9.953	74.558	21.010	1.00 42.52	В
	MOTA	2743	C !	THR	239	12.329	75.606	21.986	1.00 38.96	В
35	MOTA	2744	0 '	THR	239	12.421	75.989	23.156	1.00 40.40	В
	MOTA	2745	N (GLU	240	12.229	76.438	20.962	1.00 36.75	В
	ATOM	2746	H (GLU	240	12.181	76.087	20.049	1.00 0.00	В
	MOTA	2747	CA	GLU	240	12.191	77.867	21.185	1.00 42.75	В
	ATOM	2748	CB (GLU	240	12.344	78.604	19.855	1.00 50.61	В
40	ATOM	2749		GLU	240	11.038	78.872	19.148	1.00 62.98	В
	MOTA	2750		GLU	240	10.313	80.068	19.724	1.00 67.81	В
	MOTA	2751		GLU	240	10.925	81.156	19.774	1.00 70.98	В
	MOTA	2752	OE2		240	9.140	79.916	20.131	1.00 69.99	B B
	MOTA	2753		GLU	240	10.843	78.178	21.843	1.00 40.19	В
45	ATOM	2754		GLU	240	10.751	79.041	22.707	1.00 33.66 1.00 33.98	В
	ATOM	2755		ALA	241	9.804	77.458	21.423 20.714	1.00 33.98	В
	MOTA	2756		ALA	241	9.936	76.796	21.986	1.00 29.60	В
	ATOM	2757		ALA	241	8.471	77.636 76.687		1.00 23.00	В
50	ATOM	2758		ALA	241	7.492 8.499	77.375	23.491	1.00 29.07	В
50	MOTA	2759		ALA	241	7.801	78.047	24.251	1.00 32.90	В
	ATOM	2760		ALA	241 242	9.312	76.406	23.916	1.00 32.90	В
	ATOM	2761		ARG	242	9.845	75.913	23.257	1.00 0.00	B
	ATOM	2762		ARG ARG	242	9.429	76.057	25.332	1.00 21.30	В
55	ATOM	2763 2764		ARG	242	9.644	74.551	25.495	1.00 21.86	В
33	ATOM			ARG	242	8.486	73.680	24.980	1.00 18.40	В
	MOTA	2765 2766		ARG	242	8.520	72.317	25.663	1.00 23.54	В
	MOTA	2767		ARG	242	7.674	71.334	25.001	1.00 27.29	В
	ATOM ATOM	2768		ARG	242	7.958	70.990	24.131	1.00 0.00	В
60	ATOM	2769		ARG	242	6.536	70.870	25.509	1.00 21.77	В
00	ATOM	2770	NH1		242	6.106	71.302	26.686	1.00 28.61	В
	ATOM		нн11		242	6.637	71.979	27.196	1.00 0.00	В
	ATOM		HH12		242	5.249	70.952	27.064	1.00 0.00	В
	ATOM	2773	NH2		242	5.842	69.967	24.851	1.00 21.18	В
65	ATOM		HH21		242	6.171	69.625	23.969	1.00 0.00	В
05	MOTA		HH22		242	4.986	69.618	25.232	1.00 0.00	В
	MOTA	2776	C	ARG	242	10.538	76.806	26.071	1.00 17.43	В
	MOTA	2777		ARG	242	10.884	76.462	27.206	1.00 14.43	В
	MOTA	2778	N	GLY	243	11.127	77.800	25.419	1.00 15.32	В
70	ATOM	2779		GLY	243	10.878	78.002	24.495	1.00 0.00	В
, 0	ATOM	2780	CA	GLY	243	12.146	78.595	26.096	1.00 16.02	В
	ATOM	2781	C	GLY	243	13.628	78.505	25.786	1.00 10.54	В
	ATOM	2782	Õ	GLY	243	14.406	79.182	26.444	1.00 20.03	В
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	ATOM ATOM ATOM ATOM	2783 2784 2785 2786	N H CA CB	ALA ALA ALA ALA	244 244 244 244	14.038 13.378 15.453 15.692	77.716 77.200 77.610 76.439	24.801 24.293 24.476 23.533	1.00 10.60 1.00 0.00 1.00 10.63 1.00 12.74	B B B B
5	ATOM ATOM ATOM ATOM	2787 2788 2789 2790	C O N H	ALA ALA ARG ARG	244 244 245 245	15.916 15.394 16.911 17.308	78.907 79.329 79.540 79.140	23.828 22.800 24.433 25.235	1.00 19.09 1.00 22.97 1.00 21.88 1.00 0.00	B B B
10	ATOM ATOM	2791 2792	CA CB	ARG ARG	245 245	17.429 18.037	80.809 81.552	23.942 25.122	1.00 16.43 1.00 16.53	B B
	ATOM ATOM	2793 2794	CG CD	ARG ARG	245 245	17.062 17.668	81.593 82.162	26.288 27.546	1.00 18.89 1.00 20.31	В В -
	MOTA MOTA	2795 2796	NE HE	ARG ARG	245 245	18.429 18.290	81.148 80.209	28.265 28.024	1.00 12.05	B B
15	MOTA MOTA	2797 2798	CZ NH1	ARG ARG	245 245	19.290 19.494	81.427 82.692	29.230 29.589	1.00 16.66 1.00 11.02	B B
	ATOM ATOM	2800	нн11 нн12	ARG	245 245	18.992	83.428	29.138	1.00 0.00	В В В
20	MOTA MOTA		HH21		245 245	19.949	80.444 79.495	29.830 29.554	1.00 17.95 1.00 0.00	B B
	ATOM ATOM	2804	HH22 C	ARG	245 245	20.604	80.649	30.554	1.00 0.00 1.00 13.58 1.00 14.35	B B
	ATOM ATOM	2805 2806	N	ARG ARG	245 246	19.106 18.450	79.699 81.739	22.632 21.952 22.119	1.00 14.33 1.00 16.40 1.00 0.00	B B
25	ATOM ATOM	2807 2808	H CA	ARG ARG	246 246	17.864 19.341 19.116	82.504 81.766 83.052	20.794	1.00 16.73	B B
	ATOM ATOM	2809 2810	CB CG	ARG ARG	246 246 246	19.116 19.775 19.881	83.037 81.606	18.582 18.080	1.00 27.27 1.00 29.21	B B
30	ATOM ATOM	2811 2812 2813	CD NE HE	ARG ARG ARG	246 246 246	20.716	81.432 80.808	16.898 16.959	1.00 40.75 1.00 0.00	B B
	ATOM ATOM ATOM	2814 2815	CZ	ARG ARG	246 246	20.516	82.047 82.893	15.737 15.590	1.00 40.49 1.00 44.89	В В
35	ATOM ATOM	2816	HH11 HH12	ARG	246 246	18.867 19.361	83.049 83.355	16.346 14.715	1.00 0.00 1.00 0.00	B B
	ATOM ATOM	2818		ARG	246 246	21.323 22.065	81.797 81.130	14.715 14.816	$1.00 \ 40.11$ $1.00 \ 0.00$	B B
	MOTA MOTA	2820 2821	нн22 С	ARG ARG	246 2 4 6	21.185 20.830	82.260 81.662	13.841 21.175	1.00 0.00 1.00 19.16	B B
40	MOTA MOTA	2822 2823	N	ARG GLY	246 247	21.347	82.479	21.929	1.00 19.43 1.00 15.61 1.00 0.00	В В В
	ATOM ATOM	2824 2825	CA	GLY GLY	247 247	21.040 22.920	80.009	20.075 20.917 22.315	1.00 0.00 1.00 19.07 1.00 19.74	B B
45	ATOM ATOM	2826 2827	0	GLY GLY	247 247	23.301 24.479 22.320	80.022 79.869 79.793	22.618 23.170	1.00 13.74 1.00 24.75 1.00 18.96	B B
	ATOM ATOM	2828 2829	H	VAL VAL VAL	248 248 248	21.390 21.619	79.916 79.361	22.891 24.528	1.00 0.00 1.00 16.15	B B
50	ATOM ATOM	2830 2831 2832	CB	VAL VAL	248 248	21.466 21.742	79.725 79.172	25.475	1.00 11.70 1.00 8.03	В
30	ATOM ATOM ATOM	2833 2834	CG2	VAL VAL	248 248	21.285 22.851	81.254 77.852	25.517 24.542	1.00 12.88 1.00 19.75	В В
	ATOM ATOM	2835 2836	0	VAL LYS	248 249	22.051 23.946	77.104 77.410	24.008 25.153	1.00 20.58 1.00 21.97	В В
55	ATOM ATOM	2837 2838	H	LYS LYS	249 249	24.551 24.269	78.054 75.983	25.574 25.204	1.00 0.00 1.00 24.74	B B
	ATOM ATOM	2839 2840		LYS LYS	249 249	25.668 26.782	75.769 75.746	25.795 24.731	1.00 28.79 1.00 39.64	B B
60	MOTA MOTA	2841 2842		LYS LYS	249 249	26.332 27.485	76.365 76.507	23.395 22.393	1.00 40.06 1.00 46.49	B B
	MOTA MOTA	2843 2844	. HZ1	LYS L LYS	249 249	28.289 28.706	77.759 77.775	22.567 23.518	1.00 42.34 1.00 0.00 1.00 0.00	B B B
	MOTA MOTA	2845	HZ3	LYS LYS	249 249	27.672 29.047	78.587 77.784 75.105	22.444 21.855 25.945	1.00 0.00 1.00 18.56	B B
65	ATOM ATOM	2847 2848	3 0	LYS	249 249	23.268 22.753	75.467	27.007 25.359	1.00 15.02 1.00 19.31	B B
	MOTA MOTA	2849 2850) H	LYS LYS	250 250 250	23.030 23.514 22.101	73.937 73.734 72.943	24.531 25.864	1.00 13.31 1.00 0.00 1.00 21.51	B B
70	ATOM ATOM	2851 2852	CB	LYS LYS	250 250 250	21.440 20.819	72.228 73.146	24.684		B B
	ATOM ATOM ATOM	2853 2854 2855	L CD	LYS LYS LYS	250 250 250	20.380	72.344 73.084	22.404	1.00 20.75	B B
	71 OH	200			~					

	ATOM	2856	NZ LYS	250	19.629	73.074	20.143	1.00 33.42	В
	MOTA	2857	HZ1 LYS	250	19.675	72.092	19.805	1.00 0.00 1.00 0.00	B B
	MOTA	2858	HZ2 LYS HZ3 LYS	250 250	20.546 18.887	73.539 73.586	19.983 19.627	1.00 0.00	В
5	MOTA ATOM	2859 2860	C LYS	250	22.735	71.894	26.776	1.00 23.57	В
5	ATOM	2861	O LYS	250	23.707	71.221	26.394	1.00 20.92	В
	ATOM	2862	N VAL	251	22.198	71.756	27.986	1.00 17.38	В
	ATOM	2863	H VAL	251	21.459	72.339	28.260	1.00 0.00	B B
10	MOTA	2864	CA VAL	251	22.708	70.748 71.338	28.899 30.175	1.00 17.18 1.00 11.43	В
10	MOTA MOTA	2865 2866	CB VAL	251 251	23.364 23.853	70.213	31.024	1.00 6.20	В
	MOTA	2867	CG2 VAL	251	24.542	72.269	29.823	1.00 18.54	В
	ATOM	2868	C VAL	251	21.573	69.834	29.354	1.00 20.95	В
	MOTA	2869	O VAL	251	20.496	70.283	29.712	1.00 17.19	В
15	MOTA	2870	N MET	252	21.831	68.537	29.332 29.021	1.00 17.99 1.00 0.00	B B
	MOTA	2871	H MET CA MET	252 252	22.706 20.851	68.228 67.573	29.762	1.00 18.29	В
	ATOM ATOM	2872 2873	CA MET CB MET	252	20.513	66.658	28.570	1.00 17.87	B
	ATOM	2874	CG MET	252	19.355	65.715	28.776	1.00 17.10	В
20	ATOM	2875	SD MET	252	19.057	64.546	27.405	1.00 35.69	В
	MOTA	2876	CE MET	252	18.612	65.592	26.112	1.00 19.60	B B
	ATOM	2877	C MET	252	21.451 22.568	66.778 66.280	30.932 30.827	1.00 15.72 1.00 19.38	В
	ATOM ATOM	2878 2879	O MET N VAL	252 253	20.731	66.696	32.048	1.00 13.30	В
25	ATOM	2880	H VAL	253	19.881	67.176	32.096	1.00 0.00	В
25	ATOM	2881	CA VAL	253	21.165	65.916	33.208	1.00 17.72	В
	MOTA	2882	CB VAL	253	21.201	66.788	34.496	1.00 16.44	В
	MOTA	2883	CG1 VAL	253	22.061	68.051	34.263	1.00 9.88 1.00 28.03	B B
20	ATOM	2884	CG2 VAL	253 253	19.802 20.151	67.226 64.756	34.861 33.379	1.00 20.14	В
30	ATOM ATOM	2885 2886	C VAL	253	18.974	64.981	33.648	1.00 18.38	В
	MOTA	2887	N ILE	254	20.607	63.517	33.226	1.00 24.01	В
	MOTA	2888	H ILE	254	21.557	63.374	33.037	1.00 0.00	В
~ ~	ATOM	2889	CA ILE	254	19.715	62.360	33.335	1.00 20.30 1.00 24.38	B B
35	ATOM	2890	CB ILE	254 254	19.903 18.849	61.386 60.290	32.137 32.183	1.00 24.36	В
	MOTA MOTA	2891 2892	CG2 ILE	254	19.784	62.147	30.816	1.00 20.74	В
	ATOM	2893	CD1 ILE	254	21.107	62.500	30.176	1.00 26.33	В
	MOTA	2894	C ILE	254	19.911	61.596	34.635	1.00 21.12	В
40	MOTA	2895	O ILE	254	21.031	61.215	34.976 35.348	1.00 18.90 1.00 16.92	B B
	ATOM	2896 2897	N VAL H VAL	255 255	18.804 17.951	61.377 61.700	34.986	1.00 10.92	В
	MOTA MOTA	2898	CA VAL	255	18.796	60.692	36.629	1.00 16.15	В
	ATOM	2899	CB VAL	255	18.178	61.580	37.725	1.00 18.84	В
45	MOTA	2900	CG1 VAL	255	18.215	60.856	39.071	1.00 10.30	В
	MOTA	2901	CG2 VAL	255	18.931	62.925	37.796 36.484	1.00 16.06 1.00 13.71	B B
	ATOM	2902 2903	C VAL	255 255	17.970 16.799	59.434 59.480	36.109	1.00 16.40	В
	ATOM ATOM	2904	N THR	256	18.584	58.301	36.781	1.00 14.62	В
50	ATOM	2905	H THR	256	19.507	58.326	37.105	1.00 0.00	B
	MOTA	2906	CA THR	256	17.906	57.022	36.634	1.00 15.00	В
	MOTA	2907	CB THR	256	17.950	56.564 55.359	35.161 35.006	1.00 17.78 1.00 23.15	B B
	MOTA ATOM	2908 2909	OG1 THR HG1 THR	256 256	17.186 16.277	55.527	35.259	1.00 23.13	В
55	ATOM	2910	CG2 THR	256	19.414	56.327	34.704	1.00 10.75	В
55	ATOM	2911	C THR	256	18.542	55.954	37.523	1.00 16.31	В
	MOTA	2912	O THR	256	19.740	56.041	37.862	1.00 16.43	В
	ATOM	2913	N ASP	257	17.739	54.948	37.881	1.00 15.42 1.00 0.00	B B
60	ATOM	2914	H ASP	257	16.815 18.198	54.937 53.872	37.553 38.745	1.00 0.00 1.00 15.12	В
60	MOTA ATOM	2915 2916	CA ASP CB ASP	257 257	17.481	53.974	40.119	1.00 17.76	В
	ATOM	2917	CG ASP	257	16.155	53.241	40.153	1.00 16.63	В
	ATOM	2918	OD1 ASP	257	15.782	52.706	41.219	1.00 16.55	В
	MOTA	2919	OD2 ASP	257	15.492	53.197	39.107	1.00 18.63	В
65	MOTA	2920	C ASP	257	18.067	52.456	38.158	1.00 15.10 1.00 17.29	В В
	MOTA	2921	O ASP N GLY	257 258	17.872 18.177	51.478 52.337	38.892 36.839	1.00 17.29	В
	MOTA MOTA	2922 2923	N GLY H GLY		18.302	53.127	36.277	1.00 0.00	В
	ATOM	2924	CA GLY		18.108	51.013	36.240	1.00 11.28	В
70	ATOM	2925	C GLY	258	18.275	50.992	34.737	1.00 13.51	В
	MOTA	2926	O GLY		18.350		34.108	1.00 17.36	В
	ATOM	2927	N GLU		18.328		34.159 34.723	1.00 16.87 1.00 0.00	B B
	ATOM	2928	H GLU	259	18.257	40.775	34.143	1.00 0.00	ם

	ATOM	2929	CA GLU	259	18.488	49.628	32.718	1.00 20.62	В
	ATOM	2930	CB GLU	259	18.730	48.158	32.358	1.00 23.36 1.00 32.72	B B
	ATOM	2931	CG GLU	259 259	20.115 20.119	47.652 46.175	32.667 33.015	1.00 32.72	В
5	MOTA MOTA	2932 2933	CD GLU OE1 GLU	259	19.803	45.356	32.120	1.00 30.21	В
5	ATOM	2934	OE2 GLU	259	20.441	45.844	34.178	1.00 27.13	В
	ATOM	2935	C GLU	259	17.238	50.083	32.003	1.00 22.02	В
	ATOM	2936	O GLU	259	16.141	50.060	32.571	1.00 22.92	В
10	MOTA	2937	N SER	260	17.383	50.452 50.419	30.736 30.314	1.00 17.73 1.00 0.00	B B
10	MOTA	2938 2939	H SER CA SER	260 260	18.264 16.226	50.419	29.987	1.00 21.31	В
	MOTA MOTA	2940	CA SER CB SER	260	16.609	52.107	29.133	1.00 18.50	В
	MOTA	2941	OG SER	260	17.456	51.716	28.080	1.00 19.64	В
	ATOM	2942	HG SER	260	18.255	51.324	28.441	1.00 0.00	В
15	ATOM	2943	C SER	260	15.619	49.794	29.109	1.00 16.77	В
	MOTA	2944	O SER	260	16.330	49.027	28.486 29.083	1.00 16.79 1.00 20.77	B B
	ATOM	2945	N HIS	261 261	14.292 13.775	49.719 50.351	29.622	1.00 20.77	В
	ATOM ATOM	2946 2947	H HIS CA HIS	261	13.581	48.730	28.280	1.00 26.28	В
20	ATOM	2948	CB HIS	261	12.074	48.819	28.545	1.00 36.28	В
20	ATOM	2949	CG HIS	261	11.565	47.849	29.564	1.00 47.66	В
	MOTA	2950	CD2 HIS	261	10.832	46.717	29.426	1.00 49.49	В
	MOTA	2951	ND1 HIS	261	11.764	48.015	30.919	1.00 51.66 1.00 0.00	B B
25	ATOM	2952	HD1 HIS	261	12.252 11.170	48.757 47.034	31.331 31.575	1.00 50.93	В
25	MOTA MOTA	2953 2954	CE1 HIS NE2 HIS	261 261	10.599	46.231	30.693	1.00 52.42	B
	ATOM	2955	HE2 HIS	261	10.085	45.430	30.904	1.00 0.00	В
	ATOM	2956	C HIS	261	13.836	49.169	26.854	1.00 23.53	В
	ATOM	2957	O HIS	261	13.634	48.437	25.895	1.00 23.83	B B
30	ATOM	2958	N TYR	262	14.292	50.405 50.886	26.767 27.607	1.00 22.41 1.00 0.00	В
	MOTA	2959 2960	H TYR CA TYR	262 262	14.447 14.581	51.112	25.537	1.00 22.32	В
	MOTA MOTA	2961	CB TYR	262	14.348	52.594	25.795	1.00 29.85	В
	ATOM	2962	CG TYR	262	13.305	53.169	24.914	1.00 35.37	В
35	MOTA	2963	CD1 TYR	262	12.587	54.264	25.316	1.00 29.84	В
	MOTA	2964	CE1 TYR	262	11.582	54.781	24.522 23.671	1.00 46.06 1.00 41.64	B B
	ATOM	2965 2966	CD2 TYR CE2 TYR	262 262	13.009 11.987	52.594 53.118	22.858	1.00 41.04	В
	ATOM ATOM	2967	CZ TYR	262	11.281	54.224	23.302	1.00 41.00	В
40	ATOM	2968	OH TYR	262	10.252	54.782	22.570	1.00 44.86	В
	MOTA	2969	HH TYR	262	10.120	54.276	21.766	1.00 0.00	В
	ATOM	2970	C TYR	262	15.981	50.955	24.943	1.00 21.72	B B
	ATOM	2971	O TYR	262	16.269 16.839	51.550 50.201	23.903 25.628	1.00 17.28 1.00 23.04	В
45	ATOM ATOM	2972 2973	N ASN H ASN	263 263	16.526	49.784	26.457	1.00 0.00	В
73	ATOM	2974	CA ASN	263	18.222	49.950	25.220	1.00 24.13	В
	ATOM	2975	CB ASN	263	18.634	48.513	25.584	1.00 29.95	В
	MOTA	2976	CG ASN	263	18.971	48.335	27.058	1.00 36.99	В
	MOTA	2977	OD1 ASN	263	18.731 19.528		27.886 27.384	1.00 41.66 1.00 40.94	B B
50	ATOM	2978	ND2 ASN HD21 ASN	263 263	19.702	47.181 46.507	26.693	1.00 0.00	В
	MOTA MOTA		HD21 ASN	263	19.752	47.038	28.326	1.00 0.00	В
	ATOM	2981	C ASN	263	18.543	50.136	23.736	1.00 23.55	В
	ATOM	2982	O ASN	263	19.316	51.006	23.369	1.00 18.90	В
55	MOTA	2983	N HIS	264	17.958	49.279	22.900	1.00 23.91 1.00 0.00	B B
	ATOM	2984	H HIS	264 264	17.341 18.189	48.618 49.276	23.274 21.458	1.00 26.11	В
	MOTA MOTA	2985 2986	CA HIS	264	17.205	48.308	20.778	1.00 23.47	В
	ATOM	2987	CG HIS	264	15.766	48.685	20.947	1.00 22.25	В
60	MOTA	2988	CD2 HIS	264	14.846	48.294	21.863	1.00 24.90	В
	MOTA	2989	ND1 HIS	264	15.129		20.131	1.00 23.90	В
	MOTA	2990	HD1 HIS	264	15.530		19.366 20.532	1.00 0.00	B B
	ATOM	2991	CE1 HIS	264	13.881 13.683		20.532	1.00 31.00	В
65	ATOM ATOM	2992 2993	NE2 HIS HE2 HIS	264 264	12.847		22.081	1.00 0.00	В
05	ATOM	2994	C HIS	264	18.163		20.706	1.00 29.92	В
	ATOM	2995	O HIS	264	18.712	50.710	19.614	1.00 31.12	В
	ATOM	2996	n arg	265	17.527		21.282	1.00 30.38	В
	MOTA	2997	H ARG	265	17.125		22.161	1.00 0.00 1.00 33.48	B B
70	MOTA	2998	CA ARG	265 265	17.435 16.140		20.619 21.011	1.00 33.48	B
	ATOM ATOM	2999 3000	CB ARG CG ARG	265 265	14.909		20.585	1.00 43.13	В
	ATOM	3001		265	14.090		19.852	1.00 45.62	В

	MOTA	3002 NE ARG	265	13.403	54.838	20.755	1.00 41.09	В
	MOTA	3003 HE ARG	265	13.054	54.478	21.594	1.00 0.00 1.00 42.46	B B
	MOTA	3004 CZ ARG	265	13.218 13.671	56.130 56.670	20.506 19.380	1.00 42.46	В
5	MOTA MOTA	3005 NH1 ARG 3006 HH11 ARG	265 265	14.151	56.104	18.710	1.00 0.00	В
3	MOTA	3000 HH11 ARG	265	13.529	57.644	19.202	1.00 0.00	В
	ATOM	3008 NH2 ARG	265	12.565	56.879	21.374	1.00 43.11	В
	ATOM	3009 HH21 ARG	265	12.206	56.472	22.213	1.00 0.00	В
	ATOM	3010 HH22 ARG	265	12.426	57.852	21.189	1.00 0.00	В
10	MOTA	3011 C ARG	265	18.535	53.875	21.040	1.00 31.98 1.00 25.36	B B
	MOTA	3012 O ARG	265	18.666 19.302	54.954 53.472	20.443 22.059	1.00 23.38	В
	ATOM	3013 N LEU	266 266	19.231	52.547	22.360	1.00 27.10	В
	ATOM	3014 H LEU 3015 CA LEU	266 266	20.303	54.346	22.685	1.00 26.54	B
15	MOTA MOTA	3015 CR LEU	266	20.987	53.646	23.864	1.00 21.25	В
13	ATOM	3017 CG LEU	266	20.178	53.787	25.158	1.00 23.40	В
	ATOM	3018 CD1 LEU	266	20.950	53.117	26.265	1.00 16.18	В
	MOTA	3019 CD2 LEU	266	19.900	55.260	25.505	1.00 27.07	В
	MOTA	3020 C LEU	266	21.337	54.990	21.809	1.00 28.09	B B
20	MOTA	3021 O LEU	266	21.467	56.208	21.838 21.031	1.00 30.85 1.00 29.76	В
	ATOM	3022 N GLN	267 267	22.045 21.873	54.199 53.236	21.031	1.00 23.70	В
	MOTA ATOM	3023 H GLN 3024 CA GLN	267	23.086	54.733	20.162	1.00 29.56	B
	ATOM	3025 CB GLN	267	23.692	53.605	19.344	1.00 36.52	В
25	ATOM	3026 CG GLN	267	23.964	52.362	20.169	1.00 50.23	В
20	ATOM	3027 CD GLN	267	23.778	51.084	19.380	1.00 58.15	В
	ATOM	3028 OE1 GLN	267	23.350	50.056	19.919	1.00 60.56	В
	MOTA	3029 NE2 GLN	267	24.100	51.138	18.089	1.00 62.36 1.00 0.00	B B
20	MOTA	3030 HE21 GLN	267	24.434 23.988	51.976 50.324	17.706 17.561	1.00 0.00	В
30	MOTA	3031 HE22 GLN	267 267	22.556	55.825	19.245	1.00 31.18	В
	MOTA MOTA	3032 C GLN 3033 O GLN	267	23.145	56.905	19.130	1.00 27.34	В
	ATOM	3034 N LYS	268	21.443	55.540	18.582	1.00 29.62	В
	ATOM	3035 H LYS	268	21.009	54.672	18.704	1.00 0.00	В
35	ATOM	3036 CA LYS	268	20.872	56.514	17.687	1.00 26.36	В
	MOTA	3037 CB LYS	268	19.650	55.937	16.976	1.00 29.19	В
	MOTA	3038 CG LYS	268	19.037	56.897	15.952 14.800	1.00 37.26 1.00 37.93	B B
	ATOM	3039 CD LYS	268 268	20.002 19.555	57.194 56.514	13.516	1.00 37.33	В
40	ATOM ATOM	3040 CE LYS 3041 NZ LYS	268	20.397	56.862	12.327	1.00 50.96	В
70	ATOM	3042 HZ1 LYS	268	21.379	56.574	12.501	1.00 0.00	В
	MOTA	3043 HZ2 LYS	268	20.358	57.888	12.163	1.00 0.00	В
	MOTA	3044 HZ3 LYS	268	20.032	56.365	11.488	1.00 0.00	В
	MOTA	3045 C LYS	268	20.476	57.755	18.464	1.00 22.33 1.00 18.43	B B
45	MOTA	3046 O LYS	268	20.834	58.864 57.570	18.085 19.556	1.00 18.43	B
	ATOM	3047 N VAL 3048 H VAL	269 269	19.744 19.505	56.659	19.828	1.00 0.00	В
	ATOM ATOM	3049 CA VAL	269	19.294	58.706	20.357	1.00 24.60	В
	ATOM	3050 CB VAL	269	18.422	58.270	21.562	1.00 21.43	В
50	ATOM	3051 CG1 VAL	269	18.359	59.395	22.582	1.00 20.07	В
	ATOM	3052 CG2 VAL	269	17.014	57.926	21.092	1.00 13.06	В
	MOTA	3053 C VAL	269	20.471	59.518	20.876	1.00 25.36 1.00 24.64	B B
	MOTA	3054 O VAL	269	20.453 21.494	60.753 58.830	20.827 21.372	1.00 25.28	В
55	ATOM	3055 N ILE 3056 H ILE	270 270	21.457	57.854	21.372	1.00 23.20	В
55	MOTA MOTA	3056 H ILE 3057 CA ILE	270	22.674	59.520	21.878	1.00 20.75	В
	ATOM	3058 CB ILE	270	23.657	58.535	22.568	1.00 22.70	В
	ATOM	3059 CG2 ILE	270	25.019	59.210	22.813	1.00 16.22	В
	MOTA	3060 CG1 ILE	270	23.078	58.064	23.912	1.00 27.60	В
60	MOTA	3061 CD1 ILE	270	21.829	58.794	24.368	1.00 28.95	В
	ATOM	3062 C ILE	270	23.377	60.244	20.730	1.00 24.26 1.00 25.59	B B
	MOTA	3063 O ILE	270	23.877	61.350	20.919	1.00 23.39	В
	ATOM	3064 N GLN	271 271	23.387 22.937	59.646 58.783	19.538 19.424	1.00 24.44	В
65	ATOM	3065 H GLN 3066 CA GLN	$\frac{271}{271}$	24.066	60.269	18.389	1.00 24.78	В
U.S	ATOM ATOM	3066 CA GLN 3067 CB GLN	271	24.125	59.335	17.186	1.00 22.72	В
	ATOM	3068 CG GLN	271	24.955		16.040	1.00 26.49	В
	MOTA	3069 CD GLN	271	26.371	60.238	16.481	1.00 29.28	В
	MOTA	3070 OE1 GLN	271	26.939		16.127	1.00 30.26	В
70	MOTA	3071 NE2 GLN	271	26.951		17.264	1.00 30.30	B B
	ATOM	3072 HE21 GLN	271	26.460		17.522 17.562	1.00 0.00	В
	MOTA	3073 HE22 GLN	271	27.862 23.404		17.562	1.00 0.00	В
	MOTA	3074 C GLN	271	23.404	01.000	T / . J = T		_

	ATOM	3075	O GLN	271	24.067	62.496	17.509	1.00 16.78	В
	MOTA	3076	N ASP	272	22.082	61.557	18.025 18.343	1.00 21.10 1.00 0.00	В В
	ATOM ATOM	3077 3078	H ASP CA ASP	272 272	21.615 21.325	60.756 62.718	17.650	1.00 0.00	В
5	ATOM	3079	CB ASP	272	19.848	62.340	17.563	1.00 21.71	В
	MOTA	3080	CG ASP	272	19.567	61.417 61.541	16.376 15.361	1.00 24.50 1.00 31.04	B B
	ATOM ATOM	3081 3082	OD1 ASP OD2 ASP	272 272	20.276 18.656	60.571	16.449	1.00 31.04	B
	ATOM	3083	C ASP	272	21.593	63.832	18.656	1.00 17.80	В
10	ATOM	3084	O ASP	272	21.699	64.997	18.284 19.931	1.00 18.02 1.00 18.60	B B
	MOTA	3085 3086	N CYS H CYS	273 273	21.729 21.636	63.477 62.537	20.187	1.00 18.60	B
	MOTA MOTA	3087	CA CYS	273	22.022	64.488	20.945	1.00 20.63	В
	ATOM	3088	CB CYS	273	22.050	63.867	22.347	1.00 16.54	В
15	ATOM	3089	SG CYS	273 273	20.445 23.396	63.515 65.085	23.095 20.641	1.00 35.11 1.00 23.93	B B
	MOTA MOTA	3090 3091	C CYS	273	23.579	66.305	20.707	1.00 21.34	В
	ATOM	3092	N GLU	274	24.346	64.212	20.304	1.00 21.52	В
20	ATOM	3093	H GLU	274 274	24.114 25.723	63.261 64.601	20.261 19.993	1.00 0.00 1.00 25.93	B B
20	ATOM ATOM	3094 3095	CA GLU CB GLU	274	26.523	63.355	19.575	1.00 25.37	В
	ATOM	3096	CG GLU	274	28.017	63.412	19.847	1.00 33.76	В
	ATOM	3097	CD GLU	274	28.381 29.384	64.114 64.855	21.149 21.154	1.00 35.86 1.00 39.26	B B
25	MOTA MOTA	3098 3099	OE1 GLU OE2 GLU	274 274	27.682	63.929	22.164	1.00 31.65	В
20	ATOM	3100	C GLU	274	25.801	65.667	18.896	1.00 27.29	В
	MOTA	3101	O GLU	274	26.479	66.692	19.055 17.786	1.00 21.91 1.00 25.89	B B
	MOTA MOTA	3102 3103	N ASP H ASP	275 275	25.110 24.605	65.409 64.571	17.736	1.00 23.03	В
30	ATOM	3104	CA ASP	275	25.069	66.319	16.635	1.00 29.31	В
	MOTA	3105	CB ASP	275	24.320	65.655 64.420	15.471 14.938	1.00 28.05 1.00 37.38	B B
	ATOM ATOM	3106 3107	CG ASP OD1 ASP	275 275	25.031 26.257	64.293	15.145	1.00 41.51	В
	MOTA	3108	OD2 ASP	275	24.360	63.575	14.305	1.00 34.32	В
35	MOTA	3109	C ASP	275	24.408 24.678	67.674 68.679	16.939 16.268	1.00 29.09 1.00 22.13	B B
	MOTA MOTA	3110 3111	O ASP N GLU	275 276	23.529	67.688	17.935	1.00 30.74	В
	MOTA	3112	H GLU	276	23.353	66.859	18.423	1.00 0.00	В
40	ATOM	3113	CA GLU	276 276	22.817 21.403	68.901 68.554	18.327 18.792	1.00 32.15 1.00 31.31	B B
40	MOTA ATOM	3114 3115	CB GLU CG GLU	276	20.404	68.622	17.654	1.00 35.70	В
	ATOM	3116	CD GLU	276	19.015	68.175	18.049	1.00 42.31	В
	ATOM	3117	OE1 GLU	276 276	18.415 18.521	67.389 68.606	17.284 19.115	1.00 40.50 1.00 46.76	B B
45	ATOM ATOM	3118 3119	OE2 GLU C GLU	276	23.606	69.557	19.431	1.00 29.44	В
	ATOM	3120	O GLU	276	23.234	70.604	19.968	1.00 24.35	В
	MOTA	3121 3122	N ASN H ASN	277 277	24.727 24.942	68.918 68.087	19.744 19.272	1.00 28.11	B B
	ATOM ATOM	3123	H ASN CA ASN	277	25.644	69.401	20.757	1.00 29.61	B
50	MOTA	3124	CB ASN	277	26.309	70.682	20.271	1.00 32.09	В
	ATOM	3125	CG ASN	277 277	27.387 28.455	70.398 69.880	19.252 19.597	1.00 38.92 1.00 38.13	B B
	MOTA MOTA	3126 3127	OD1 ASN ND2 ASN	277	27.113	70.712	17.989	1.00 39.28	В
	MOTA	3128	HD21 ASN	277	26.245	71.104	17.760	1.00 0.00	В
55	MOTA		HD22 ASN	277	27.804 25.023	70.534 69.617	17.319 22.111	1.00 0.00 1.00 27.06	В В
	MOTA MOTA	3130 3131	C ASN O ASN	277 277	25.118	70.691	22.693	1.00 28.18	В
	ATOM	3132	N ILE	278	24.390	68.572	22.613	1.00 22.45	В
60	ATOM	3133	H ILE	278	24.339 23.775	67.740 68.640	22.096 23.909	1.00 0.00 1.00 18.31	B B
60	MOTA ATOM	3134 3135	CA ILE	278 278	22.422	67.904	23.899	1.00 14.49	В
	MOTA	3136	CG2 ILE	278	21.895	67.787	25.306	1.00 12.68	В
	ATOM	3137	CG1 ILE	278	21.454 20.093	68.639 68.024	22.962 22.870	1.00 17.11 1.00 16.07	B B
65	ATOM ATOM	3138 3139	CD1 ILE	278 278	24.728	67.978	24.903	1.00 18.85	В
0.5	MOTA	3140	O ILE	278	25.052	66.802	24.767	1.00 17.29	В
	MOTA	3141	N GLN	279	25.180	68.738	25.896	1.00 15.07 1.00 0.00	B B
	ATOM ATOM	3142 3143	H GLN CA GLN	279 279	24.907 26.071	69.676 68.182	25.956 26.891	1.00 0.00	В
70	ATOM	3144	CB GLN	279	26.788	69.299	27.636	1.00 22.04	В
	MOTA	3145	CG GLN	279	28.008	68.836 69.984	28.428 29.146	1.00 25.39 1.00 25.91	B B
	ATOM ATOM	3146 3147	CD GLN OE1 GLN	279 279	28.683 29.500		30.040	1.00 26.55	В
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	ATOM	3148	NE2	GLN	279	28.340	71.208	28.758	1.00 23.93	В
	MOTA	3149	HE21	GLN	279	27.685	71.328	28.040	1.00 0.00	В
	ATOM	3150	HE22	GLN	279	28.769	71.963	29.211	1.00 0.00	В
	MOTA	3151	С	GLN	279	25.253	67.347	27.866	1.00 17.77	В
5	ATOM	3152	0	GLN	279	24.310	67.847	28.475	1.00 21.13	В
	ATOM	3153	N	ARG	280	25.620	66.081	28.025	1.00 19.35	B B
	ATOM	3154	H	ARG	280	26.398	65.742	27.538	1.00 0.00	В
	MOTA	3155	CA	ARG	280	24.880	65.184 64.007	28.913 28.123	1.00 17.76 1.00 13.32	В
10	ATOM	3156	CB	ARG	280 280	24.285 24.065	64.255	26.641	1.00 16.90	В
10	MOTA ATOM	3157 3158	CG CD	ARG ARG	280	23.912	62.956	25.872	1.00 12.99	В
	ATOM	3159	NE	ARG	280	25.175	62.404	25.368	1.00 14.94	В
	ATOM	3160	HE	ARG	280	25.533	61.605	25.802	1.00 0.00	В
	ATOM	3161	CZ	ARG	280	25.866	62.931	24.363	1.00 18.57	В
15	MOTA	3162		ARG	280	25.421	64.025	23.754	1.00 16.91	В
	MOTA		HH11		280	24.569	64.453	24.058	1.00 0.00	В
	MOTA	3164			280	25.937	64.421	22.996	1.00 0.00	В
	MOTA	3165		ARG	280	27.005	62.370	23.965	1.00 12.64 1.00 0.00	B B
20	ATOM	3166			280	27.344 27.521	61.552 62.763	24.430 23.211	1.00 0.00	В
20	MOTA	3167 3168	C C	ARG	280 280	25.628	64.601	30.111	1.00 16.54	В
	ATOM ATOM	3169	0	ARG	280	26.644	63.912	29.968	1.00 18.85	В
	ATOM	3170	N	PHE	281	25.099	64.893	31.288	1.00 14.11	В
	MOTA	3171	H	PHE	281	24.324	65.492	31.315	1.00 0.00	В
25	MOTA	3172	CA	PHE	281	25.611	64.374	32.543	1.00 13.98	В
	MOTA	3173	CB	PHE	281	25.610	65.452	33.632	1.00 20.05	В
	MOTA	3174	CG	PHE	281	26.572	66.572	33.394	1.00 23.08 1.00 22.44	B B
	ATOM	3175		PHE	281	26.213 27.822	67.660 66.564	32.606 33.998	1.00 22.44	В
30	MOTA	3176 3177		PHE PHE	281 281	27.086	68.732	32.426	1.00 23.69	В
30	ATOM ATOM	3178		PHE	281	28.702	67.628	33.826	1.00 19.90	В
	ATOM	3179	CZ	PHE	281	28.328	68.718	33.038	1.00 22.07	В
	ATOM	3180	C	PHE	281	24.570	63.306	32.929	1.00 16.85	В
	MOTA	3181	0	PHE	281	23.370	63.589	32.962	1.00 17.22	В
35	MOTA	3182	N	SER	282	25.022	62.095	33.231	1.00 14.65	B B
	ATOM	3183	H	SER	282	25.984 24.104	61.920 61.030	33.203 33.605	1.00 0.00 1.00 14.06	В
	ATOM ATOM	3184 3185	CA CB	SER SER	282 282	24.152	59.884	32.578	1.00 11.06	В
	ATOM	3186	OG	SER	282	25.449	59.298	32.482	1.00 18.85	В
40	ATOM	3187	HG	SER	282	25.433	58.594	31.836	1.00 0.00	В
	ATOM	3188	С	SER	282	24.449	60.516	34.984	1.00 15.44	В
	MOTA	3189	0	SER	282	25.631	60.359	35.310	1.00 22.28	В
	MOTA	3190	N	ILE	283	23.413	60.278	35.787	1.00 16.47 1.00 0.00	B B
15	ATOM	3191	H	ILE	283	22.513 23.541	60.444 59.776	35.442 37.152	1.00 0.00	В
45	MOTA MOTA	3192 3193	CA CB	ILE ILE	283 283	22.870	60.730	38.164	1.00 13.63	В
	ATOM	3194	CG2		283	22.863	60.095	39.532	1.00 11.53	В
	ATOM	3195		ILE	283	23.606	62.072	38.237	1.00 18.66	В
	MOTA	3196	CD1	ILE	283	23.280		37.120	1.00 14.72	В
50	MOTA	3197	C	ILE	283	22.842	58.403	37.283	1.00 20.66	В
	ATOM	3198	0	ILE	283	21.623	58.291 57.369	37.068 37.616	1.00 19.36 1.00 18.27	B B
	ATOM	3199	N	ALA	28 4 28 4	23.617 24.579	57.514	37.731	1.00 18.27	В
	MOTA MOTA	3200 3201	H CA	ALA ALA	284	23.082	56.022	37.731	1.00 16.02	В
55	ATOM	3202	CB	ALA	284	24.000	54.974	37.196	1.00 17.51	В
55	ATOM	3203	C	ALA	284	22.963	55.767	39.299	1.00 18.28	В
	ATOM	3204	0	ALA	284	23.956	55.892	40.018	1.00 22.88	В
	MOTA	3205		ILE	285	21.753	55.430	39.764	1.00 19.46	В
	MOTA	3206		ILE	285	21.001	55.378	39.139 41.182	1.00 0.00 1.00 20.18	B B
60	ATOM	3207		ILE	285	21.523 20.188	55.137 55.716	41.182	1.00 20.18	В
	ATOM ATOM	3208 3209		ILE ILE	285 285	19.893	55.174	43.103	1.00 17.01	В
	MOTA	3210		ILE	285	20.256	57.235	41.762	1.00 17.37	В
	MOTA	3211		ILE	285	19.131	57.923	41.023	1.00 18.02	В
65	ATOM	3212	С	ILE	285	21.469	53.621	41.280	1.00 20.23	В
	ATOM	3213	0	ILE	285	20.615	52.986	40.659	1.00 20.26	В
	MOTA	3214		LEU	286	22.384	53.045	42.052	1.00 17.07	В
	ATOM	3215		LEU	286	23.012	53.610	42.549 42.176	1.00 0.00 1.00 19.43	B B
70	ATOM	3216		LEU	286 286	22.471 23.949	51.602 51.171	42.176	1.00 19.43	В
70	ATOM ATOM	3217 3218		LEU LEU	286 286	25.035	51.649	41.276	1.00 17.49	В
	ATOM	3219		LEU	286	25.830	50.442	40.797	1.00 12.99	В
	ATOM	3220		LEU	286	24.431	52.420	40.099	1.00 10.34	В

	ATOM	3221	С	LEU	286	21.722	51.058	43.382	1.00 21.59	В
	ATOM	3222	0	LEU	286	21.885	49.895	43.742	1.00 23.43	В
	MOTA	3223	N	GLY	287	20.899	51.903	43.997	1.00 21.97	В
	ATOM	3224	H	GLY	287	20.792	52.812	43.647	1.00 0.00	В
5	MOTA	3225	CA	GLY	287	20.158	51.493	45.173	1.00 19.38	В
	ATOM	3226	С	GLY	287	19.312	50.236	45.051	1.00 23.15	В
	ATOM	3227	0	GLY	287	19.575	49.221	45.708	1.00 20.35	В
	MOTA	3228		HIS	288	18.285	50.308	44.215	1.00 17.51	B B
	MOTA	3229	H	HIS	288	18.130	51.137	43.713	1.00 0.00	
10	MOTA	3230	CA	HIS	288	17.387	49.196	44.027	1.00 14.47	B B
	ATOM	3231	CB	HIS	288	16.298	49.571	43.042	1.00 14.52 1.00 15.66	В
	ATOM	3232	CG	HIS	288	15.289	48.495	42.825	1.00 15.00	В
	MOTA	3233	CD2		288	15.157	47.585	41.826 43.731	1.00 10.26	В
	ATOM	3234	ND1		288	14.289	48.220	43.731	1.00 10.20	В
15	MOTA	3235	HD1		288	14.116	48.715 47.198	44.551	1.00 16.43	В
	MOTA	3236	CE1		288	13.575	46.794	42.141	1.00 10.43	В
	MOTA	3237	NE2		288	14.083 13.751	46.754	41.599	1.00 0.00	В
	MOTA	3238	HE2		288	18.086	47.939	43.532	1.00 20.49	В
20	MOTA	3239	C	HIS	288	17.786	46.833	43.982	1.00 20.49	В
20	MOTA	3240	0	HIS	288 289	19.007	48.117	42.595	1.00 20.56	В
	ATOM	3241	N	TYR	289	19.202	49.023	42.276	1.00 0.00	B
	ATOM	3242	H	TYR	289	19.733	46.995	42.034	1.00 18.95	В
	MOTA	3243	CA	TYR	289	20.740	47.489	41.004	1.00 16.43	В
25	MOTA	3244 3245	CB	TYR	289	20.740	47.446	39.597	1.00 16.33	В
25	MOTA		CG CD1	TYR TYR	289	19.048	48.104	39.264	1.00 14.79	В
	MOTA	3246 3247	CD1 CE1	TYR	289	18.563	48.086	37.978	1.00 23.36	В
	MOTA	3248	CD2	TYR	289	20.907	46.757	38.592	1.00 18.79	В
	ATOM ATOM	3249	CE2	TYR	289	20.428	46.733	37.287	1.00 18.41	В
30	ATOM	3250	CZ	TYR	289	19.252	47.409	36.991	1.00 22.68	В
50	ATOM	3251	OH	TYR	289	18.755	47.437	35.716	1.00 18.85	В
	ATOM	3252	HH	TYR	289	17.943	47.954	35.703	1.00 0.00	В
	ATOM	3253	C	TYR	289	20.467	46.221	43.120	1.00 16.62	В
	ATOM	3254	Ö	TYR	289	20.383	44.995	43.190	1.00 16.84	В
35	ATOM	3255	N	ASN	290	21.182	46.940	43.976	1.00 14.38	В
33	ATOM	3256	H	ASN	290	21.203	47.921	43.912	1.00 0.00	В
	MOTA	3257	CA	ASN	290	21.927	46.254	45.007	1.00 16.73	В
	MOTA	3258	CB	ASN	290	23.029	47.167	45.546	1.00 16.82	В
	ATOM	3259	ĊG	ASN	290	24.202	47.282	44.575	1.00 23.04	В
40	ATOM	3260		ASN	290	24.477	46.361	43.788	1.00 17.55	В
	ATOM	3261	ND2	ASN	290	24.892	48.410	44.618	1.00 21.77	В
	MOTA	3262	HD21	ASN	290	24.637	49.116	45.247	1.00 0.00	В
	MOTA	3263	HD22	ASN	290	25.647	48.501	44.001	1.00 0.00	В
	ATOM	3264	С	ASN	290	21.016	45.733	46.110	1.00 18.43	В
45	MOTA	3265	0	ASN	290	21.301	44.698	46.720	1.00 15.23	В
	MOTA	3266	N	ARG	291	19.909	46.434	46.330	1.00 16.92	В
	MOTA	3267	H	ARG	291	19.744	47.244	45.805	1.00 0.00	В
	MOTA	3268	CA	ARG	291	18.926	46.034	47.336	1.00 21.23	В
	ATOM	3269	CB	ARG	291	17.804	47.089	47.452	1.00 24.15	В
50	MOTA	3270	CG	ARG	291	17.983	48.113	48.576	1.00 25.81	В
	ATOM	3271	CD	ARG	291	17.245	49.456	48.310	1.00 34.39	В
	ATOM	3272	NE	ARG	291	16.026	49.348	47.505	1.00 42.57	В
	MOTA	3273	$_{ m HE}$	ARG	291	15.575	48.480	47.481	1.00 0.00	В
	MOTA	3274	CZ	ARG	291	15.478	50.349	46.806	1.00 43.67	В
55	MOTA	3275		ARG	291	16.035	51.551	46.803	1.00 38.72	В
	MOTA		HH11		291	16.864	51.719	47.331	1.00 0.00	В
	MOTA		HH12		291	15.620	52.293	46.275	1.00 0.00 1.00 39.35	B B
	MOTA	3278		ARG	291	14.356	50.148	46.110		В
	ATOM		нн21		291	13.920	49.248	46.114	1.00 0.00	
60	MOTA		HH22		291	13.952	50.897	45.585	1.00 0.00	B B
	ATOM	3281	С	ARG	291	18.337	44.690	46.908	1.00 10.17	В
	MOTA	3282	0	ARG	291	17.966	43.883	47.734	1.00 10.79	
	MOTA	3283	N	GLY	292	18.283	44.442	45.607	1.00 18.23	В
	MOTA	3284	H	GLY	292	18.625	45.096	44.967	1.00 0.00	B
65	MOTA	3285	CA	GLY	292	17.712	43.187	45.139	1.00 19.17 1.00 20.74	B B
	MOTA	3286	C	GLY	292	18.625	42.170	44.468		В
	MOTA	3287	0	GLY	292	18.143	41.280	43.759	1.00 16.44	В
	MOTA	3288	N	ASN	293	19.925	42.262	44.724	1.00 19.28	В
	MOTA	3289		ASN	293	20.235	42.945	45.353	1.00 0.00	В
70	MOTA	3290		ASN	293	20.918	41.375	44.101	1.00 23.38 1.00 21.82	В
	MOTA	3291		ASN	293	20.855	39.945	44.650		В
	ATOM	3292		ASN		22.109	39.122	44.279	1.00 28.61 1.00 20.89	В
	MOTA	3293	OD1	ASN	293	22.011	38.021	43.727	1.00 40.09	Б

	MOTA	3294	ND2 ASN	293	23.286	39.667	44.580	1.00 16.64	В
	ATOM		HD21 ASN	293	23.321	40.544	45.016	1.00 0.00	В
	MOTA		HD22 ASN	293	24.090 20.851	39.158 41.290	44.353 42.578	1.00 0.00 1.00 24.68	B B
5	MOTA MOTA	3297 3298	C ASN O ASN	293 293	20.937	40.199	42.009	1.00 25.78	В
5	ATOM	3299	N LEU	294	20.690	42.432	41.917	1.00 27.45	В
	ATOM	3300	H LEU	294	20.582	43.268	42.415	1.00 0.00	В
	ATOM	3301	CA LEU	294	20.666	42.454	40.457	1.00 26.46	В
	MOTA	3302	CB LEU	294	19.696	43.514	39.920	1.00 21.98	B B
10	MOTA	3303	CG LEU	294	18.249 17.464	43.549 44.534	40.402 39.538	1.00 33.38 1.00 32.24	В
	ATOM	3304 3305	CD1 LEU CD2 LEU	294 294	17.639	42.177	40.334	1.00 27.44	B
	MOTA MOTA	3305	C LEU	294	22.063	42.822	39.984	1.00 24.21	В
	MOTA	3307	O LEU	294	22.709	43.685	40.571	1.00 23.66	В
15	ATOM	3308	N SER	295	22.526	42.174	38.924	1.00 23.08	В
	MOTA	3309	H SER	295	21.984	41.469	38.512	1.00 0.00	В
	ATOM	3310	CA SER	295	23.833 24.211	42.497 41.481	38.366 37.284	1.00 24.49 1.00 22.71	B B
	MOTA	3311	CB SER OG SER	295 295	25.057	42.058	36.307	1.00 28.77	В
20	ATOM ATOM	3312 3313	HG SER	295	25.856	42.370	36.726	1.00 0.00	В
20	ATOM	3314	C SER	295	23.724	43.909	37.759	1.00 20.29	В
	ATOM	3315	O SER	295	22.815	44.187	36.983	1.00 18.00	В
	ATOM	3316	N THR	296	24.660	44.777	38.118	1.00 16.49	В
25	MOTA	3317	H THR	296	25.372	44.479 46.166	38.724 37.653	1.00 0.00 1.00 18.66	B B
25	MOTA	3318 3319	CA THR CB THR	296 296	24.679 25.023	47.101	38.804	1.00 19.68	В
	MOTA MOTA	3320	OG1 THR	296	26.258	46.675	39.393	1.00 19.06	В
	ATOM	3321	HG1 THR	296	26.162	45.778	39.722	1.00 0.00	В
	ATOM	3322	CG2 THR	296	23.927	47.060	39.863	1.00 22.45	В
30	ATOM	3323	C THR	296	25.664	46.470	36.535	1.00 19.63	В
	MOTA	3324	O THR	296	25.808	47.626	36.136	1.00 17.70 1.00 21.20	B B
	MOTA	3325	N GLU	297 297	26.324 26.131	45.439 44.536	36.016 36.341	1.00 21.20	В
	ATOM ATOM	3326 3327	H GLU CA GLU	297	27.325	45.622	34.972	1.00 21.26	В
35	MOTA	3328	CB GLU	297	28.042	44.291	34.710	1.00 30.39	В
55	ATOM	3329	CG GLU	297	29.004	43.863	35.838	1.00 39.46	В
	ATOM	3330	CD GLU	297	28.305	43.191	37.015	1.00 41.75	В
	MOTA	3331	OE1 GLU	297	27.330	42.455	36.778 38.173	1.00 45.39 1.00 35.85	B B
40	MOTA	3332 3333	OE2 GLU C GLU	297 297	28.735 26.789	43.392 46.210	33.675	1.00 33.83	В
40	ATOM ATOM	3334	O GLU	297	27.344	47.184	33.151	1.00 18.94	В
	MOTA	3335	N LYS	298	25.717	45.622	33.153	1.00 15.26	В
	MOTA	3336	H LYS	298	25.330	44.845	33.608	1.00 0.00	В
	ATOM	3337	CA LYS	298	25.105	46.107	31.925	1.00 17.69	В
45	MOTA	3338	CB LYS	298	23.958	45.163	31.500 30.151	1.00 22.54 1.00 16.04	B B
	ATOM ATOM	3339 3340	CG LYS	298 298	23.297 22.093	45.486 44.565	29.903	1.00 15.19	В
	ATOM	3341	CE LYS	298	21.795	44.409	28.415	1.00 24.32	В
	ATOM	3342	NZ LYS	298	20.353	44.064	28.147	1.00 31.08	В
50	ATOM	3343	HZ1 LYS	298	19.741	44.822	28.518	1.00 0.00	В
	MOTA	3344	HZ2 LYS	298	20.114	43.169	28.620	1.00 0.00	В
	MOTA	3345	HZ3 LYS	298	20.202 24.556	43.968 47.506	27.124 32.172	1.00 0.00 1.00 14.71	B B
	ATOM ATOM	3346 3347	C LYS O LYS	298 298	24.718	48.410	31.356	1.00 19.72	В
55	MOTA	3348	N PHE	299	23.915	47.659	33.322	1.00 19.20	В
JJ	MOTA	3349	H PHE	299	23.860	46.891	33.929	1.00 0.00	В
	ATOM	3350	CA PHE	299	23.283	48.912	33.744	1.00 16.23	В
	MOTA	3351	CB PHE	299	22.600	48.673	35.110	1.00 15.69	В
	MOTA	3352	CG PHE	299	22.135	49.920	35.826	1.00 17.83 1.00 17.90	В В
60	MOTA	3353 3354	CD1 PHE CD2 PHE	299 299	21.724 22.110	51.058 49.949	35.127 37.216	1.00 17.55	В
	MOTA ATOM	3355	CE1 PHE	299	21.303	52.191	35.802	1.00 15.38	В
	ATOM	3356	CE2 PHE	299	21.687	51.087	37.897	1.00 26.58	В
	MOTA	3357	CZ PHE	299	21.282	52.213	37.179	1.00 19.56	В
65	MOTA	3358	C PHE	299	24.276	50.079	33.818	1.00 17.61	В
	ATOM	3359	O PHE	299	24.087	51.099	33.163	1.00 16.95	В
	ATOM	3360		300	25.327	49.914 49.066	34.617 35.094	1.00 17.22 1.00 0.00	B B
	MOTA	3361 3362	H VAL CA VAL	300 300	25.433 26.322	50.959	34.801	1.00 18.55	В
70	ATOM ATOM	3363	CB VAL	300	27.421	50.492	35.773	1.00 16.60	В
, ,	ATOM	3364		300	28.724	51.220	35.492	1.00 21.52	В
	MOTA	3365		300	26.974	50.723	37.195	1.00 19.24	В
	ATOM	3366		300	26.941	51.382	33.480	1.00 17.23	В

	MOTA	3367	0	VAL	300	27.075	52.569	33.198	1.00 15.55	В
	ATOM	3368	N	GLU	301	27.293	50.400	32.665	1.00 15.45	В
	MOTA	3369	H	GLU	301	27.145	49.471	32.939	1.00 0.00	В
_	MOTA	3370	CA	GLU	301	27.892	50.674	31.374	1.00 20.07	В
5	MOTA	3371	CB	GLU	301	28.282	49.349	30.708	1.00 25.34	В
	MOTA	3372	CG	GLU	301	28.738	49.477	29.274		B B
	MOTA	3373	CD	GLU	301	27.589	49.413	28.283	1.00 50.61 1.00 56.16	В
	MOTA	3374	OE1		301	26.510	48.871	28.633	1.00 54.98	В
• •	MOTA	3375			301	27.771	49.908	27.146	1.00 34.98	В
10	MOTA	3376	C	GLU	301	26.956	51.483	30.457 29.663	1.00 22.33	В
	ATOM	3377	0	GLU	301	27.413	52.316 51.235	30.573	1.00 18.66	B
	ATOM	3378	N	GLU	302	25.652		31.221	1.00 21.30	В
	MOTA	3379	H	GLU	302	25.349	50.566	29.759	1.00 0.00	В
1.5	ATOM	3380	CA	GLU	302	24.655	51.931 51.173	29.739	1.00 23.59	В
15	ATOM	3381	CB	GLU	302	23.316 22.069	51.173	29.281	1.00 26.77	В
	ATOM	3382	CG	GLU	302	20.820	51.024	29.367	1.00 19.66	В
	ATOM	3383	CD OH1	GLU	302 302	20.820	49.919	28.798	1.00 15.00	B
	ATOM	3384	OE1	GLU	302	19.836	51.428	30.010	1.00 19.29	В
20	ATOM	3385	OE2	GLU	302	24.487	53.409	30.163	1.00 13.52	В
20	MOTA	3386	C	GLU GLU	302	24.426	54.276	29.303	1.00 17.34	В
	MOTA	3387	0	ILE	303	24.419	53.710	31.452	1.00 17.66	B
	ATOM	3388	N		303	24.459	53.009	32.135	1.00 0.00	B
	ATOM	3389 3390	H CA	$_{\rm ILE}$	303	24.282	55.117	31.825	1.00 15.73	В
25	MOTA	3391	CB	ILE	303	24.030	55.310	33.330	1.00 18.32	В
23	ATOM	3392	CG2	ILE	303	23.348	56.686	33.566	1.00 12.98	В
	ATOM ATOM	3393	CG2	ILE	303	23.163	54.164	33.864	1.00 21.47	В
	ATOM	3394	CD1	ILE	303	21.731	54.137	33.322	1.00 24.44	В
	ATOM	3395	CDI	ILE	303	25.575	55.848	31.452	1.00 20.62	В
30	ATOM	3396	0	ILE	303	25.542	57.005	31.051	1.00 22.42	В
50	ATOM	3397	N	LYS	304	26.715	55.172	31.593	1.00 17.68	В
	ATOM	3398	H	LYS	304	26.703	54.253	31.932	1.00 0.00	В
	ATOM	3399	CA	LYS	304	27.980	55.805	31.236	1.00 22.51	В
	ATOM	3400	CB	LYS	304	29.183	54.907	31.567	1.00 13.79	В
35	ATOM	3401	CG	LYS	304	30.528	55.611	31.424	1.00 27.58	В
-	ATOM	3402	CD	LYS	304	31.449	55.355	32.617	1.00 29.45	В
	ATOM	3403	CE	LYS	304	32.745	56.172	32.533	1.00 33.25	В
	ATOM	3404	NZ	LYS	304	33.272	56.638	33.870	1.00 32.84	В
	ATOM	3405		LYS	304	33.470	55.816	34.473	1.00 0.00	В
40	ATOM	3406	HZ2	LYS	304	32.561	57.243	34.330	1.00 0.00	В
	ATOM	3407	HZ3	LYS	304	34.147	57.184	33.727	1.00 0.00	В
	ATOM	3408	C	LYS	304	27.963	56.096	29.745	1.00 20.33	В
	ATOM	3409	0	LYS	304	28.455	57.130	29.307	1.00 21.96	В
	MOTA	3410	N	SER	305	27.376	55.185	28.977	1.00 16.80	В
45	ATOM	3411	H	SER	305	26.990	54.387	29.393	1.00 0.00	В
	MOTA	3412	CA	SER	305	27.295	55.346	27.534	1.00 20.13	В
	MOTA	3413	CB	SER	305	26.662	54.112	26.898	1.00 18.58	В
	MOTA	3414	OG	SER	305	25.453	54.454	26.253	1.00 30.77	В
	MOTA	3415	HG	SER	305	25.630	55.103	25.567	1.00 0.00	В
50	ATOM	3416	С	SER	305	26.517	56.584	27.107	1.00 15.70	В
	MOTA	3417	0	SER	305	26.679	57.045	25.991	1.00 14.73	В
	MOTA	3418	N	$_{ m ILE}$	306	25.677	57.110	27.994	1.00 20.28	В
	MOTA	3419	H	ILE	306	25.593	56.689	28.877	1.00 0.00	В
	MOTA	3420	CA	ILE	306	24.872	58.299	27.698	1.00 14.20	В
55	MOTA	3421	CB	ILE	306	23.555	58.269	28.527	1.00 25.18	В
	ATOM	3422	CG2	ILE	306	22.895	59.661	28.591	1.00 18.61	В
	MOTA	3423	CG1	ILE	306	22.588	57.265	27.900	1.00 23.41	В
	ATOM	3424	CD1	ILE	306	22.204	56.151	28.834	1.00 19.11	В
	MOTA	3425	С	ILE	306	25.656	59.594	27.985	1.00 18.43	В
60	MOTA	3426	0	ILE	306	25.481	60.596	27.301	1.00 15.22	В
	MOTA	3427	N	ALA	307	26.522	59.555	28.996	1.00 20.05	В
	MOTA	3428	H	ALA	307	26.607	58.727	29.512	1.00 0.00	В
	MOTA	3429	CA	ALA	307	27.350	60.711	29.369	1.00 21.87	В
	MOTA	3430	CB	ALA	307	28.291	60.341	30.515	1.00 13.67	В
65	MOTA	3431	С	ALA	307	28.177	61.271	28.226	1.00 15.95	В
	MOTA	3432	0	ALA	307	28.653	60.542	27.370	1.00 18.44	В
	MOTA	3433	N	SER	308	28.343	62.583	28.231	1.00 18.17	В
	MOTA	3434	H	SER	308	27.907	63.117	28.925	1.00 0.00	В
	ATOM	3435	CA	SER	308	29.154	63.252	27.225	1.00 19.58	В
70	MOTA	3436	CB	SER	308	28.962	64.759	27.306	1.00 15.23	В
	MOTA	3437	OG	SER	308	27.810	65.168	26.610	1.00 22.22	В
	MOTA	3438	HG	SER	308	27.890	64.920	25.685	1.00 0.00	В
	MOTA	3439	С	SER	308	30.606	62.935	27.556	1.00 16.69	В

	ATOM	3440	O SER	308	30.930	62.608	28.691	1.00 19.32	В
	ATOM	3441	n glu	309	31.478	63.027	26.570	1.00 19.87	В
	MOTA	3442	H GLU	309	31.181	63.264	25.667	1.00 0.00 1.00 27.15	B B
_	MOTA	3443	CA GLU	309 309	32.883 33.576	62.772 62.254	26.840 25.586	1.00 27.13	В
5	MOTA MOTA	3444 3445	CB GLU CG GLU	309	33.735	62.234 60.743	25.594	1.00 42.04	В
	ATOM	3446	CD GLU	309	33.305	60.100	24.293	1.00 51.38	В
	ATOM	3447	OE1 GLU	309	33.438	58.860	24.165	1.00 53.41	В
	MOTA	3448	OE2 GLU	309	32.836	60.835	23.398	1.00 53.07	В
10	MOTA	3449	C GLU	309	33.549	64.049	27.339	1.00 23.13	В
	MOTA	3450	O GLU	309	33.260	65.147	26.859	1.00 24.83 1.00 22.49	B B
	MOTA	3451	N PRO	310 310	34.429 35.090	63.934 65.153	28.339 28.838	1.00 22.49	В
	MOTA MOTA	3452 3453	CD PRO CA PRO	310	34.873	62.730	29.061	1.00 20.46	В
15	ATOM	3454	CB PRO	310	36.043	63.238	29.899	1.00 21.98	В
15	ATOM	3455	CG PRO	310	35.744	64.692	30.108	1.00 22.65	B
	MOTA	3456	C PRO	310	33.789	62.122	29.952	1.00 20.72	В
	MOTA	3457	O PRO	310	33.170	62.840	30.748	1.00 21.32	В
20	MOTA	3458	N THR	311	33.557	60.813	29.833	1.00 16.53 1.00 0.00	B B
20	ATOM	3459	H THR	311 311	34.066 32.556	60.282 60.172	29.184 30.669	1.00 0.00 1.00 20.30	В
	MOTA MOTA	3460 3461	CA THR CB THR	311	32.387	58.671	30.367	1.00 26.73	В
	ATOM	3462	OG1 THR	311	33.656	58.018	30.481	1.00 33.48	В
	ATOM	3463	HG1 THR	311	33.997	58.128	31.371	1.00 0.00	В
25	MOTA	3464	CG2 THR	311	31.798	58.449	28.983	1.00 27.71	В
	MOTA	3465	C THR	311	32.894	60.277	32.153	1.00 25.27 1.00 29.95	B B
	ATOM	3466	O THR N GLU	311 312	32.022 34.153	60.561 60.052	32.960 32.524	1.00 29.93	В
	ATOM ATOM	3467 3468	N GLU H GLU	312	34.837	59.854	31.852	1.00 0.00	В
30	MOTA	3469	CA GLU	312	34.509	60.104	33.940	1.00 27.24	В
	ATOM	3470	CB GLU	312	36.004	59.840	34.153	1.00 30.20	В
	MOTA	3471	CG GLU	312	36.889	60.121	32.953	1.00 44.57	В
	ATOM	3472	CD GLU	312	36.932	58.966	31.967 32.376	1.00 42.06 1.00 44.27	B B
35	MOTA	3473 3474	OE1 GLU OE2 GLU	312 312	37.286 36.609	57.844 59.188	30.778	1.00 44.27	В
33	ATOM ATOM	3475	C GLU	312	34.116	61.425	34.590	1.00 28.79	В
	ATOM	3476	O GLU	312	33.898	61.483	35.803	1.00 25.09	В
	MOTA	3477	N LYS	313	34.028	62.485	33.795	1.00 26.01	В
40	MOTA	3478	H LYS	313	34.229	62.399	32.840	1.00 0.00	В
40	MOTA	3479	CA LYS	313	33.635	63.776 64.904	34.340 33.563	1.00 24.40 1.00 29.52	B B
	ATOM ATOM	3480 3481	CB LYS CG LYS	313 313	34.311 35.760	65.150	33.989	1.00 40.92	В
	ATOM	3482	CD LYS	313	35.838	66.011	35.246	1.00 42.61	B
	ATOM	3483	CE LYS	313	37.263	66.454	35.516	1.00 44.08	В
45	MOTA	3484	NZ LYS	313	37.340	67.390	36.668	1.00 45.93	В
	MOTA	3485	HZ1 LYS	313	36.977	66.918	37.522	1.00 0.00	B B
	MOTA	3486	HZ2 LYS HZ3 LYS	313 313	36.767 38.329	68.234 67.670	36.469 36.822	1.00 0.00 1.00 0.00	В
	MOTA MOTA	3487 3488	C LYS	313	32.114	63.968	34.305	1.00 23.67	В
50	ATOM	3489	O LYS	313	31.546	64.615	35.183	1.00 21.16	В
•	ATOM	3490	N HIS	314	31.462	63.394	33.299	1.00 17.77	В
	ATOM	3491	H HIS	314	31.956	62.860	32.643	1.00 0.00	В
	MOTA	3492	CA HIS	314	30.026	63.546	33.163	1.00 23.14	B B
55	ATOM	3493	CB HIS	314 314	29.664 30.242	63.688 64.916	31.681 31.035	1.00 23.44 1.00 26.47	В
55	MOTA MOTA	3494 3495	CG HIS	314	31.317	65.073	30.226	1.00 24.55	В
	MOTA	3496	ND1 HIS	314	29.652	66.157	31.136	1.00 27.43	В
	MOTA	3497	HD1 HIS	314	28.867	66.359	31.682	1.00 0.00	В
	MOTA	3498	CE1 HIS	314	30.344	67.031	30.426	1.00 13.83	В
60	MOTA	3499	NE2 HIS	314	31.355	66.398	29.864	1.00 30.72	В
	ATOM	3500	HE2 HIS	314	32.021	66.817 62.430	29.289 33.812	1.00 0.00 1.00 19.97	B B
	ATOM ATOM	3501 3502	C HIS O HIS	314 314	29.178 28.022	62.663	34.133	1.00 15.17	В
	ATOM	350Z 3503	O HIS N PHE	315	29.752	61.245	34.019	1.00 12.58	В
65	ATOM	3504	H PHE	315	30.680	61.109	33.753	1.00 0.00	В
	MOTA	3505	CA PHE	315	29.018	60.139	34.637	1.00 11.72	В
	MOTA	3506	CB PHE	315	29.435	58.799	34.022	1.00 13.63	В
	MOTA	3507	CG PHE	315	28.821	57.595	34.702	1.00 17.15	B B
70	ATOM	3508	CD1 PHE	315	27.427 29.626	57.409 56.635	34.716 35.320	1.00 12.18 1.00 21.49	В
70	MOTA MOTA	3509 3510	CD2 PHE CE1 PHE	315 315	26.856	56.290	35.320	1.00 21.49	В
	ATOM	3510	CE2 PHE	315	29.052	55.501	35.941	1.00 19.73	В
	MOTA	3512	CZ PHE	315	27.651	55.337	35.943	1.00 11.10	В

	MOTA	3513	С	PHE	315	29.189	60.045	36.153	1.00 20.36	В
	MOTA	3514	0	PHE	315	30.307	60.141	36.672	1.00 18.84	В
	ATOM	3515	N	PHE	316	28.074	59.844	36.863	1.00 23.38	В
	MOTA	3516	H	PHE	316	27.214	59.795	36.398	1.00 0.00	В
5	MOTA	3517	CA	PHE	316	28.107	59.697	38.317	1.00 14.23	В
2	ATOM	3518	CB	PHE	316	27.395	60.853	39.002	1.00 19.22	В
	ATOM	3519	CG	PHE	316	28.065	62.188	38.810	1.00 27.88	В
	ATOM	3520		PHE	316	27.744	62.994	37.721	1.00 28.03	В
	ATOM	3521		PHE	316	28.969	62.675	39.754	1.00 31.78	B
10	ATOM	3522		PHE	316	28.306	64.271	37.578	1.00 29.90	В
10	MOTA	3523		PHE	316	29.535	63.959	39.609	1.00 25.22	В
	ATOM	3524	CZ	PHE	316	29.195	64.746	38.523	1.00 25.24	В
		3525	C	PHE	316	27.453	58.392	38.737	1.00 19.30	В
	MOTA						58.100	38.370	1.00 15.30	В
1.5	ATOM	3526	0	PHE	316	26.306	57.593	39.489	1.00 22.70	В
15	ATOM	3527	N	ASN	317	28.194		39.409		В
	ATOM	3528	H	ASN	317	29.106	57.868		1.00 0.00 1.00 23.24	В
	ATOM	3529	CA	ASN	317	27.695	56.312	39.979		
	ATOM	3530	CB	ASN	317	28.741	55.210	39.759	1.00 22.04	В
20	ATOM	3531	CG	ASN	317	28.335	53.871	40.391	1.00 25.87	В
20	ATOM	3532		ASN	317	27.738	53.828	41.467	1.00 26.08	В
	ATOM	3533		ASN	317	28.658	52.778	39.716	1.00 13.17	В
	ATOM		HD21		317	29.130	52.855	38.858	1.00 0.00	В
	ATOM	3535	HD22		317	28.407	51.916	40.103	1.00 0.00	В
	ATOM	3536	С	ASN	317	27.410	56.484	41.463	1.00 18.96	В
25	\mathbf{MOTA}	3537	0	ASN	317	28.326	56.476	42.277	1.00 21.45	В
	MOTA	3538	\mathbf{N}	VAL	318	26.142	56.669	41.804	1.00 23.81	В
	MOTA	3539	H	VAL	318	25.458	56.678	41.102	1.00 0.00	В
	MOTA	3540	CA	VAL	318	25.731	56.857	43.187	1.00 20.00	В
	MOTA	3541	CB	VAL	318	24.576	57.902	43.272	1.00 21.73	В
30	MOTA	3542	CG1	VAL	318	23.466	57.514	42.335	1.00 27.34	В
	MOTA	3543	CG2	VAL	318	24.060	58.012	44.688	1.00 15.43	В
	MOTA	3544	C	VAL	318	25.280	55.508	43.737	1.00 20.44	В
	ATOM	3545	0	VAL	318	24.488	54.814	43.108	1.00 17.67	В
	MOTA	3546	N	SER	319	25.797	55.133	44.903	1.00 20.29	В
35	MOTA	3547	H	SER	319	26.417	55.731	45.369	1.00 0.00	В
	ATOM	3548	CA	SER	319	25.455	53.840	45.502	1.00 17.71	В
	ATOM	3549	CB	SER	319	26.268	53.608	46.775	1.00 13.81	В
	MOTA	3550	OG	SER	319	27.123	54.701	47.038	1.00 31.29	В
	MOTA	3551	HG	SER	319	26.599	55.496	47.151	1.00 0.00	В
40	MOTA	3552	C	SER	319	23.969	53.697	45.816	1.00 18.64	В
	MOTA	3553	0	SER	319	23.382	52.644	45.575	1.00 16.85	В
	ATOM	3554	N	ASP	320	23.361	54.745	46.351	1.00 16.38	В
	MOTA	3555	H	ASP	320	23.866	55.566	46.537	1.00 0.00	В
	ATOM	3556	CA	ASP	320	21.943	54.679	46.665	1.00 20.08	В
45	ATOM	3557	CB	ASP	320	21.720	53.772	47.878	1.00 26.71	В
	ATOM	3558	CG	ASP	320	22.310	54.337	49.143	1.00 23.52	В
	ATOM	3559	OD1	ASP	320	23.287	55.104	49.059	1.00 27.09	В
	ATOM	3560	OD2	ASP	320	21.791	54.013	50.227	1.00 27.50	В
	ATOM	3561	С	ASP	320	21.317	56.062	46.886	1.00 16.45	В
50	ATOM	3562	0	ASP	320	22.018	57.062	47.037	1.00 15.80	В
	MOTA	3563	N	GLU	321	19.991	56.088	46.902	1.00 14.19	В
	MOTA	3564	H	GLU	321	19.508	55.238	46.818	1.00 0.00	В
	ATOM	3565	CA	GLU	321	19.220	57.313	47.037	1.00 21.02	В
	MOTA	3566	CB	GLU	321	17.738	56.966	47.233	1.00 12.70	В
55	MOTA	3567	CG	GLU	321	17.115	56.285	46.017	1.00 12.53	В
	MOTA	3568	CD	GLU	321	17.187	54.767	46.098	1.00 17.82	В
	ATOM	3569		GLU	321	17.982	54.231	46.903	1.00 14.77	В
	ATOM	3570	OE2		321	16.439	54.103	45.355	1.00 17.04	В
	ATOM	3571	C	GLU	321	19.675	58.272	48.130	1.00 24.90	В
60	ATOM	3572	Õ	GLU	321	19.749	59.480	47.906	1.00 22.58	В
00	MOTA	3572	N	LEU	322	19.967	57.732	49.307	1.00 26.45	В
		3574	H	LEU	322	19.881	56.763	49.428	1.00 0.00	В
	ATOM					20.411	58.550	50.425	1.00 28.16	В
	ATOM	3575 3576	CA CB	LEU LEU	322 322	20.411	57.707	51.709	1.00 28.10	B
65	MOTA					19.155	57.600	52.478	1.00 32.00	В
65	MOTA	3577	CG CD1	LEU	322	19.155	56.923	53.839	1.00 34.11	В
	ATOM	3578		LEU	322				1.00 29.26	В
	ATOM	3579		LEU	322	18.583	59.000	52.645		
	ATOM	3580		LEU	322	21.768	59.193	50.154	1.00 30.66 1.00 33.88	B B
70	ATOM	3581		LEU	322	22.119	60.195	50.776	1.00 33.88	B
70	MOTA	3582	N	ALA	323	22.527	58.625	49.219		
	ATOM	3583	H	ALA	323	22.199	57.828	48.752	1.00 0.00	В
	ATOM	3584		ALA	323	23.839	59.166	48.886	1.00 24.47	В
	MOTA	3585	CB	ALA	323	24.772	58.030	48.451	1.00 19.17	В

	ATOM	3586	C .	ALA	323	23	3.832	60.283	47.820	1.00	24.00	В
	MOTA	3587	0 .	ALA	323	24	1.829	60.971	47.657		24.66	В
	ATOM	3588		LEU	324		2.735	60.481	47.096		21.81	В
5	ATOM	3589		LEU	324		1.941 2.715	59.928 61.534	47.248 46.069	1.00 1.00	0.00 19.68	B B
3	ATOM ATOM	3590 3591		LEU LEU	324 324		1.312	61.715	45.508	1.00	18.39	В
	ATOM	3592		LEU	324		0.899	60.637	44.519	1.00	13.78	В
	MOTA	3593	CD1	LEU	324	19	9.402	60.611	44.457	1.00	16.65	В
	ATOM	3594		LEU	324		1.511	60.908	43.143		14.31	В
10	MOTA	3595		LEU	324		3.226	62.892	46.561	1.00	23.65	В
	MOTA	3596 3597		LEU	324 325		3.938 2.852	63.594 63.264	45.841 47.783	1.00	18.23 26.30	B B
	ATOM ATOM	3598		VAL VAL	325		2.272	62.672	48.305	1.00	0.00	В
	ATOM	3599		VAL	325		3.282	64.533	48.369	1.00	31.91	В
15	MOTA	3600		VAL	325	22	2.778	64.643	49.837	1.00	37.44	В
	MOTA	3601	CG1		325		3.583	65.687	50.609	1.00	34.83	В
	ATOM	3602		VAL	325		1.294	65.008	49.843		42.56	В
	ATOM ATOM	3603 3604		VAL VAL	325 325		4.819 5.327	64.710 65.825	48.330 48.398	1.00	30.26	B B
20	ATOM	3605		THR	326		5.548	63.609	48.194	1.00	28.75	В
20	ATOM	3606		THR	326		5.094	62.744	48.113	1.00	0.00	В
	MOTA	3607	CA	THR	326		6.998	63.657	48.167		31.17	В
	MOTA	3608		THR	326		7.607	62.288	48.511		27.84	В
25	ATOM	3609		THR	326		7.229	61.332	47.514	1.00	34.82	B B
25	ATOM ATOM	3610 3611		THR THR	326 326		6.277 7.136	61.260 61.826	47.489 49.880	1.00	30.51	В
	ATOM	3612		THR	326		7.608	64.128	46.856		32.05	В
	ATOM	3613		THR	326		8.745	64.590	46.846		30.58	В
	ATOM	3614	N	ILE	327		6.879	64.002	45.750		33.07	В
30	ATOM	3615	H	ILE	327		5.984	63.603	45.793	1.00	0.00	В
	ATOM	3616	CA	ILE	327 327		7.421 7.185	64.461 63.446	44.472 43.300	1.00 1.00	32.83 35.01	B B
	ATOM ATOM	3617 3618	CB CG2	ILE	327		7.185	62.118	43.604		32.57	В
	MOTA	3619		ILE	327		5.691	63.252	43.048		35.05	B
35	ATOM	3620	CD1		327		5.371	62.796	41.633	1.00	32.92	В
	ATOM	3621	C	ILE	327		6.852	65.814	44.061		30.01	В
	ATOM	3622	0	ILE	327		7.211	66.348	43.011		23.73	B B
	MOTA MOTA	3623 3624		VAL VAL	328 328		5.972 5.715	66.370 65.896	44.894 45.711	1.00	26.90	В
40	ATOM	3625		VAL	328		5.383	67.675	44.600		32.68	В
	ATOM	3626		VAL	328		4.535	68.177	45.798		36.74	В
	MOTA	3627	CG1	VAL	328		4.075	69.612	45.561		29.92	В
	ATOM	3628	CG2		328		3.332	67.265	45.998		30.30	В
45	ATOM ATOM	3629		VAL	328 328		6.451 6.310	68.741 69.477	44.255 43.279		33.15 35.10	B B
43	ATOM	3630 3631		VAL LYS	329		7.528	68.801	45.038		32.80	В
	ATOM	3632		LYS	329		7.613	68.169	45.781	1.00	0.00	В
	MOTA	3633	CA	LYS	329		8.585	69.789	44.819	1.00	31.42	В
=0	MOTA	3634		LYS	329		9.563	69.773	45.990		38.34	В
50	MOTA	3635	CG	LYS	329		9.794	71.139	46.623		42.75 46.58	B B
	ATOM ATOM	3636 3637	CD CE	LYS LYS	329 329		9.245 7.716	71.201 71.275	48.053 48.078		48.13	В
	ATOM	3638	NZ	LYS	329		7.089	70.078	48.711		48.31	B
	MOTA	3639	HZ1		329		7.420	69.992	49.693	1.00	0.00	В
55	MOTA	3640	HZ2		329		7.357	69.225	48.180	1.00	0.00	В
	MOTA	3641	HZ3		329		6.055	70.182	48.701	1.00	0.00	В
	ATOM	3642	C	LYS	329 329		9.365 9.548	69.648 70.633	43.517 42.791		29.75 30.62	B B
	MOTA MOTA	3643 3644	N	LYS ALA	330		9.818	68.434	43.226		27.05	В
60	ATOM	3645	H	ALA	330		9.623	67.699	43.844	1.00	0.00	В
	ATOM	3646	CA	ALA	330	3	0.598	68.145	42.022		27.52	В
	MOTA	3647	CB	ALA	330		1.094	66.683	42.058		15.14	В
	ATOM	3648	C	ALA	330		9.804	68.397	40.742		24.45	В
65	ATOM	3649	O	ALA	330 331		0.282 8.585	69.043 67.878	39.811 40.708		29.53 27.74	B B
05	ATOM ATOM	3650 3651	N H	LEU LEU	331		8.266	67.372	41.483	1.00		В
	ATOM	3652	CA	LEU	331		7.701	68.040	39.555		26.77	В
	MOTA	3653	CB	LEU	331	2	6.398	67.267	39.771		20.69	В
-	ATOM	3654	CG	LEU	331		5.594	66.834	38.543		27.56	В
70	ATOM	3655	CD1		331		4.126	67.117	38.817		32.10	В
	ATOM ATOM	3656 3657	CD2 C	LEU	331 331		6.079 7.358	67.540 69.497	37.280 39.326		22.24 14.45	B B
	ATOM	3658	0	LEU	331		7.376	69.973	38.209	1.00	25.05	В
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	ATOM	3659	N	GLY	332	27.036	70.199	40.400	1.00 20.98	В
	MOTA	3660	H	GLY	332	27.036	69.772	41.280	1.00 0.00	В
	MOTA	3661	CA	GLY	332	26.683	71.599	40.277	1.00 16.97	В
_	MOTA	3662	С	GLY	332	27.830	72.431	39.740	1.00 23.19	В
5	MOTA	3663	0	GLY	332	27.611	73.389	39.000	1.00 20.06	В
	ATOM	3664	N	GLU	333	29.063	72.086	40.102	1.00 22.14	В
	MOTA	3665	H	GLU	333	29.218	71.324	40.699	1.00 0.00	В
	MOTA	3666	CA	GLU	333	30.169	72.870	39.589	1.00 28.24	В
10	ATOM	3667	CB	GLU	333	31.358	72.859	40.557	1.00 33.30	В
10	ATOM	3668	CG	GLU	333	31.779	71.505	41.068	1.00 40.29	В
	ATOM	3669	CD	GLU	333	33.065	71.595	41.866	1.00 46.24	В
	ATOM	3670	OE1		333	34.122	71.152	41.350	1.00 45.00	В
	MOTA	3671	OE2	GLU	333	33.008	72.121	43.006	1.00 38.74	В
1.5	ATOM	3672	C	GLU	333	30.594	72.407	38.206	1.00 27.85	В
15	ATOM	3673	0	GLU	333	31.048	73.215	37.397	1.00 29.71	В
	ATOM	3674	N	ARG	334	30.438	71.115	37.920	1.00 25.03 1.00 0.00	B B
	MOTA	3675 3676	H	ARG	334 334	30.079 30.799	70.508 70.594	38.601 36.602	1.00 0.00	В
	ATOM	3677	CA CB	ARG ARG	334	30.799	69.062	36.610	1.00 18.82	В
20	MOTA ATOM	3678	CG	ARG	334	32.187	68.485	36.951	1.00 17.43	В
20	ATOM	3679	CD	ARG	334	32.112	66.986	37.157	1.00 12.28	В
	ATOM	3680	NE	ARG	334	33.151	66.520	38.065	1.00 26.33	В
	ATOM	3681	HE	ARG	334	33.835	67.163	38.343	1.00 0.00	В
	MOTA	3682	CZ	ARG	334	33.230	65.281	38.543	1.00 33.67	В
25	MOTA	3683	NH1		334	32.321	64.366	38.200	1.00 28.50	В
	ATOM		HH11		334	31.575	64.611	37.583	1.00 0.00	В
	ATOM	3685	HH12		334	32.388	63.437	38.563	1.00 0.00	В
	ATOM	3686	NH2		334	34.220	64.956	39.364	1.00 33.01	В
	ATOM	3687			334	34.901	65.642	39.624	1.00 0.00	В
30	ATOM	3688	HH22		334	34.287	64.026	39.728	1.00 0.00	В
	ATOM	3689	C	ARG	334	29.811	71.057	35.532	1.00 16.42	В
	ATOM	3690	0	ARG	334	30.185	71.277	34.383	1.00 17.09	В
	MOTA	3691	N	ILE	335	28.541	71.184	35.889	1.00 18.26	В
	MOTA	3692	H	ILE	335	28.256	70.974	36.802	1.00 0.00	В
35	MOTA	3693	CA	ILE	335	27.574	71.640	34.899	1.00 21.52	В
	MOTA	3694	CB	ILE	335	26.166	71.818	35.518	1.00 22.25	В
	ATOM	3695	CG2	ILE	335	26.288	72.266	36.946	1.00 30.01	В
	ATOM	3696	CG1	ILE	335	25.365	72.886	34.776	1.00 13.73	В
40	ATOM	3697	CD1	ILE	335	25.018	72.533	33.362	1.00 25.02	В
40	ATOM	3698	C	ILE	335	28.053	72.976	34.345	1.00 24.47	В
	MOTA	3699	0	ILE	335	28.012	73.203	33.135	1.00 23.62	B B
	ATOM	3700 3701	N	PHE	336 336	28.537 28.593	73.841 73.575	35.235 36.176	1.00 24.00	В
	MOTA MOTA	3701	H CA	PHE PHE	336	28.987	75.179	34.848	1.00 29.92	В
45	ATOM	3702	CB	PHE	336	28.561	76.179	35.932	1.00 23.52	В
73	ATOM	3704	CG	PHE	336	27.077	76.412	35.973	1.00 26.05	В
	ATOM	3705	CD1		336	26.290	75.810	36.955	1.00 30.05	B
	ATOM	3706		PHE	336	26.459	77.184	34.993	1.00 24.28	В
	ATOM	3707	CE1		336	24.895	75.970	36.958	1.00 25.70	В
50	ATOM	3708	CE2		336	25.072	77.353	34.981	1.00 26.15	В
	ATOM	3709	CZ	PHE	336	24.287	76.738	35.971	1.00 22.17	В
	ATOM	3710	С	PHE	336	30.463	75.384	34.495	1.00 31.44	В
	ATOM	3711	0	PHE	336	30.870	76.491	34.124	1.00 27.91	В
	MOTA	3712	N	ALA	337	31.260	74.328	34.583	1.00 30.25	В
55	MOTA	3713	H	ALA	337	30.895	73.465	34.875	1.00 0.00	В
	ATOM	3714	CA	ALA	337	32.674	74.440	34.253	1.00 35.57	В
	MOTA	3715	CB	ALA	337	33.518	74.124	35.479	1.00 31.23	В
	ATOM	3716	С	ALA	337	33.085	73.537	33.083	1.00 38.16	В
	MOTA	3717	0	ALA	337	33.755	73.989	32.162	1.00 40.82	В
60	MOTA	3718	N	LEU	338	32.668	72.271	33.125	1.00 41.05	В
	ATOM	3719	H	LEU	338	32.114	71.987	33.880	1.00 0.00	В
	MOTA	3720	CA	LEU	338	33.003	71.286	32.092	1.00 43.90	В
	MOTA	3721	CB	LEU	338	32.334	69.943	32.405	1.00 43.75	В
	ATOM	3722	CG	LEU	338	33.195	68.796	32.939	1.00 46.43	В
65	ATOM	3723		LEU	338	32.356	67.526	33.010	1.00 48.40	В
	MOTA	3724		LEU	338	34.406	68.586	32.043	1.00 46.34	В
	ATOM	3725	C	LEU	338	32.609	71.712	30.683	1.00 47.43	В
	ATOM	3726	0	LEU	338	33.390	71.430	29.740	1.00 47.18	В
70	ATOM	3727	TO	LEU	338	31.518	72.308	30.541	1.00 50.73	В
70	ATOM	3728		H20	1	11.763	72.942	27.999	1.00 13.08	W
	ATOM	3729	H1	H20	1	12.196	72.994	27.149	1.00 0.00	W
	ATOM	3730	H2	H20	1	11.929	72.051	28.302 28.263	1.00 0.00 1.00 38.72	W W
	ATOM	3731	OH2	H20	2	33.606	75.805	∠0.∠03	1.00 30.72	VV

APOM 3733 HI H2O 2 33.652 75.559 29.186 1.00 0.00 W APOM 3734 HI H2O 2 33.674 75.762 28.267 1.00 0.00 NO										
AROM 3734 OHZ H20 3 46.772 76.583 -1.078 1.00 59.42 W AROM 3735 H1 H20 3 47.663 77.129 -1.859 1.00 0.00 W AROM 3737 OHZ H20 4 17.895 53.996 32.616 1.00 0.00 W AROM 3737 OHZ H20 4 17.895 53.996 32.616 1.00 0.22.55 W AROM 3738 H1 H20 4 17.234 54.300 31.991 1.00 0.00 W AROM 3738 H1 H20 4 17.234 54.300 31.991 1.00 0.00 W AROM 3743 H1 H20 5 52.867 51.146 22.889 1.00 0.70 W AROM 3744 H1 H20 5 52.867 67 67 67 67 67 67 67 67 67 67 67 67 6		MOTA	3732	H1 H2O	2	33.652	75.559	29.186	1.00 0.00	W
ATOM 3736 H1 H20 3 46.862 77.129 -1.859 1.00 0.00 W ATOM 3737 OHZ H20 4 17.892 53.996 32.616 1.00 0.00 W ATOM 3738 H1 H20 4 17.892 53.996 32.616 1.00 0.00 W ATOM 3738 H2 H20 4 17.892 53.996 32.616 1.00 0.00 W ATOM 3739 H2 H20 4 17.561 53.146 32.907 1.00 0.00 W ATOM 3739 H2 H20 4 17.561 53.146 32.907 1.00 0.00 W ATOM 3740 OHZ H20 5 28.607 56.204 23.823 1.00 0.77.55 ATOM 3744 H1 H20 5 27.946 56.312 24.504 1.00 0.00 W ATOM 3741 H1 H20 5 29.007 75.204 23.823 1.00 0.00 W ATOM 3744 H1 H20 6 32.857 77.437 33.342 1.00 0.00 W ATOM 3744 H1 H20 7 32.646 77.437 33.342 1.00 0.00 W ATOM 3744 H1 H20 7 31.646 32.857 77.437 33.342 1.00 0.00 W ATOM 3744 H1 H20 7 31.646 32.857 77.437 33.342 1.00 0.00 W ATOM 3745 H1 H20 7 31.646 63.83 1.00 0.00 W ATOM 3744 H1 H20 7 31.646 63.83 1.00 0.00 W ATOM 3745 H1 H20 8 13.855 78.968 34.695 1.00 0.00 W ATOM 3749 OHZ H20 8 13.855 78.968 34.695 1.00 0.00 W ATOM 3749 H20 8 13.855 78.968 34.695 1.00 0.00 W ATOM 3753 H1 H20 9 25.185 90.524 -21.011 1.00 0.00 W ATOM 3753 H1 H20 9 25.865 90.956 -20.487 1.00 31.46 W ATOM 3753 H1 H20 9 25.865 90.956 -20.487 1.00 0.00 W ATOM 3755 H1 H20 10 36.614 69.921 37.968 1.00 0.00 W ATOM 3755 H1 H20 10 36.614 69.921 37.968 1.00 0.00 W ATOM 3755 H1 H20 13 36.14 69.921 71.97.960 1.00 0.00 W ATOM 3755 H1 H20 10 36.614 69.921 37.968 1.00 0.00 W ATOM 3755 H1 H20 13 37.12 69.641 38.766 1.00 0.00 W ATOM 3756 H1 H20 13 21.27 79.90 32.77 1.97.90 1.00 0.00 W ATOM 3757 H1 H20 10 37.012 69.641 38.766 1.00 0.00 W ATOM 3757 H1 H20 10 37.012 69.641 38.766 1.00 0.00 W ATOM 3757 H1 H20 10 37.012 69.641 38.766 1.00 0.00 W ATOM 3757 H1 H20 10 37.012 69.641 38.766 1.00 0.00 W ATOM 3757 H1 H20 10 37.012 69.641 38.766 1.00 0.00 W ATOM 3757 H1 H20 10 37.012 69.641 38.766 1.00 0.00 W ATOM 3757 H1 H20 10 37.012 69.641 38.766 1.00 0.00 W ATOM 3758 H1 H20 11 37.418 69.91 37.968 1.00 0.00 W ATOM 3758 H1 H20 11 37.418 69.91 37.968 1.00 0.00 W ATOM 3758 H1 H20 11 37.418 69.91 37.968 1.00 0.00 W ATOM 3758 H1 H20 11 37.418 69.91 37.968 1.00 0.00 W ATOM 3758 H1 H20 11 37.418 69.91 37.99 37.99 37.									1.00 0.00	W
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ATOM 3797 OH2 H2O 24 15.889 49.740 39.303 1.00 19.38 W ATOM 3798 H1 H2O 24 16.319 48.932 39.026 1.00 0.00 W ATOM 3799 H2 H2O 24 15.010 49.471 39.561 1.00 0.00 W ATOM 3800 OH2 H2O 25 37.655 61.332 27.513 1.00 31.70 W ATOM 3801 H1 H2O 25 36.886 61.727 27.931 1.00 0.00 W ATOM 3802 H2 H2O 25 37.861 60.575 28.057 1.00 0.00 W ATOM 3803 OH2 H2O 26 17.980 71.537 17.982 1.00 39.05 W	<i>(</i> =									
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70 ATOM 3800 OH2 H2O 25 37.655 61.332 27.513 1.00 31.70 W ATOM 3801 H1 H2O 25 36.886 61.727 27.931 1.00 0.00 W ATOM 3802 H2 H2O 25 37.861 60.575 28.057 1.00 0.00 W ATOM 3803 OH2 H2O 26 17.980 71.537 17.982 1.00 39.05 W										
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ATOM 3803 OH2 H2O 26 17.980 71.537 17.982 1.00 39.05 W										

	ATOM	3805	н2 н2	26	18.160	71.014	10 761	1.00 0.00	747
	ATOM	3806	OH2 H2		12.412		18.764 -14.438	1.00 0.00 1.00 54.13	W W
	ATOM	3807	H1 H2		11.645		-14.436	1.00 34.13	W
	MOTA	3808	H2 H2		12.947		-13.875	1.00 0.00	W
. 5	MOTA	3809	OH2 H2		35.093	93.688	9.513	1.00 49.07	W
	ATOM	3810	H1 H2		34.158	93.901	9.502	1.00 0.00	W
	ATOM	3811	H2 H2		35.143	92.843	9.955	1.00 0.00	W
	ATOM	3812	OH2 H2		27.557	67.319	47.587	1.00 20.63	W
	MOTA	3813	H1 H2		28.387	67.684	47.271	1.00 0.00	W
10	ATOM	3814	H2 H2		27.650	66.377	47.466	1.00 0.00	W
	ATOM	3815	OH2 H2		12.145	50.693	37.668	1.00 22.09	W
	ATOM	3816	н1 н2		12.508	49.987	38.209	1.00 0.00	W
	ATOM	3817	H2 H2		12.370	51.493	38.131	1.00 0.00	W
	ATOM	3818	OH2 H20		29.496	59.286	42.408	1.00 37.05	W
15	ATOM	3819	H1 H2		30.012	59.213	43.211	1.00 0.00	W
	MOTA	3820	H2 H2		29.640	60.183	42.110	1.00 0.00	W
	MOTA	3821	ОН2 Н2		28.197	52.345	43.775	1.00 24.75	W
	ATOM	3822	H1 H20		28.094	52.722	42.902	1.00 0.00	W
	MOTA	3823	H2 H2	32	28.541	51.469	43.622	1.00 0.00	W
20	MOTA	3824	OH2 H20	33	23.054	77.785	-19.613	1.00 54.17	W
	ATOM	3825	H1 H20	33	23.018	77.086	-20.264	1.00 0.00	W
	MOTA	3826	H2 H20	33	23.144	78.588	-20.124	1.00 0.00	W
	ATOM	3827	OH2 H20		11.508	89.358	-0.033	1.00 89.65	W
	MOTA	3828	H1 H20		10.947	90.015	0.378	1.00 0.00	W
25	MOTA	3829	H2 H20		11.860	88.850	0.697	1.00 0.00	W
	MOTA	3830	OH2 H20		11.641	45.393	37.448	1.00 51.14	W
	MOTA	3831	H1 H20		11.020	45.208	36.743	1.00 0.00	M
	MOTA	3832	H2 H2		11.965	44.531	37.713	1.00 0.00	W
20	MOTA	3833	OH2 H20		20.569	40.000	37.790	1.00 29.17	W
30	MOTA	3834	H1 H20		20.797	40.503	37.007	1.00 0.00	W
	ATOM	3835	H2 H20		20.901	40.523	38.517	1.00 0.00	W
	MOTA	3836	OH2 H20		24.685	71.120	-9.820	1.00 43.88	M
	MOTA	3837	H1 H20		25.328	70.841	-9.165	1.00 0.00	W
25	MOTA	3838	H2 H20		24.632		-10.426	1.00 0.00	M
35	ATOM	3839	OH2 H20		17.308	85.319	37.723	1.00 34.44	W
	ATOM	3840	H1 H20		18.044	85.879	37.954	1.00 0.00	M
	ATOM	3841	H2 H20		17.596	84.434	37.953	1.00 0.00	M
	MOTA	3842	OH2 H20		12.687	42.769	41.100	1.00 28.15	M
40	MOTA MOTA	3843 3844	H1 H20		12.510	41.844	40.940	1.00 0.00	W
40	ATOM	3845	H2 H20		11.922 17.331	43.225 86.756	40.743 34.308	1.00 0.00	W
	MOTA	3846	H1 H20		18.021	87.306	34.500	1.00 14.85 1.00 0.00	W
	MOTA	3847	H2 H2		17.772	85.936	34.077	1.00 0.00	W W
	MOTA	3848	OH2 H20		11.389	77.413	34.219	1.00 0.00	W
45	ATOM	3849	H1 H20		11.834	76.632	33.886	1.00 13.24	W
	ATOM	3850	H2 H2		11.955	77.724	34.927	1.00 0.00	W
	ATOM	3851	OH2 H20		22.064	47.418	49.189	1.00 21.90	W
	ATOM	3852	H1 H20		22.578	47.067	49.916	1.00 0.00	W
	ATOM	3853	H2 H20		21.955	48.346	49.399	1.00 0.00	W
50	ATOM	3854	ОН2 Н20		42.304	89.935	-4.829	1.00 41.26	W
	ATOM	3855	H1 H20		42.968	90.334	-4.263	1.00 0.00	W
	ATOM	3856	H2 H20		41.497	90.399	-4.614	1.00 0.00	W
	MOTA	3857	он2 н20		20.332	50.701	49.638	1.00 34.52	W
	ATOM	3858	н1 н20	44	20.304	50.701	48.682	1.00 0.00	W
55	ATOM	3859	H2 H20) 44	20.709	51.553	49.866	1.00 0.00	W
	MOTA	3860	OH2 H20	45	29.753	79.163	20.128	1.00 29.41	W
	MOTA	3861	H1 H20	45	29.861	79.995	20.588	1.00 0.00	W
	MOTA	3862	H2 H20	45	30.517	78.646	20.388	1.00 0.00	W
	MOTA	3863	OH2 H20	46	21.428	84.063	13.081	1.00 37.53	W
60	MOTA	3864	H1 H20	46	21.980	83.848	12.332	1.00 0.00	W
	MOTA	3865	H2 H20) 46	22.024	84.033	13.833	1.00 0.00	W
	MOTA	3866	OH2 H20	47	44.014	87.180	0.493	1.00 42.34	W
	ATOM	3867	H1 H20	47	44.816	87.537	0.112	1.00 0.00	W
	MOTA	3868	H2 H20		44.255	86.949	1.390	1.00 0.00	W
65	MOTA	3869	OH2 H20		10.349	58.686	20.367	1.00 54.51	W
	ATOM	3870	H1 H20		11.088	58.206	20.745	1.00 0.00	W
	MOTA	3871	H2 H20		10.744	59.467	19.982	1.00 0.00	W
	MOTA	3872	OH2 H20		23.990	56.220	51.509	1.00 25.41	W
~ ^	MOTA	3873	H1 H20		23.268	55.601	51.628	1.00 0.00	W
70	MOTA	3874	H2 H20		24.178	56.195	50.573	1.00 0.00	W
	ATOM	3875	OH2 H20		14.872	75.264	-7.889	1.00 34.60	W
	ATOM	3876	H1 H20		15.737	75.461	-8.249	1.00 0.00	W
	ATOM	3877	H2 H20	51	15.004	75.262	-6.940	1.00 0.00	W

	ATOM	3878	ОН2 Н2О	52	29.495	53.936	48.249	1.00 35.09	W
	MOTA	3879	H1 H2O	52	30.382	53.691	48.511	1.00 0.00	M
	MOTA	3880	H2 H2O	52	28.980	53.881	49.050	1.00 0.00	W
_	MOTA	3881	OH2 H2O	53	23.913	39.862	34.279	1.00 24.69	W
5	ATOM ATOM	3882 3883	H1 H2O H2 H2O	53 53	23.928 22.981	40.573 39.718	34.917 34.101	1.00 0.00 1.00 0.00	W
	ATOM	3884	OH2 H2O	54	27.855	38.735	36.184	1.00 41.97	W
	ATOM	3885	H1 H2O	54	27.501	37.874	35.965	1.00 0.00	W
	ATOM	3886	H2 H2O	54	27.094	39.319	36.159	1.00 0.00	W
10	MOTA	3887	ОН2 Н2О	55	14.443	71.878	19.001	1.00 43.17	M
	MOTA	3888	H1 H2O	55	13.698	71.493	18.533	1.00 0.00	M
	MOTA	3889	H2 H2O	55	14.053	72.271	19.782	1.00 0.00	M
	ATOM	3890	OH2 H2O	56 56	9.281	50.087	37.191 36.769	1.00 22.03 1.00 0.00	W
15	ATOM ATOM	3891 3892	H1 H2O H2 H2O	56 56	10.124 9.351	49.922 49.660	38.045	1.00 0.00	W
13	ATOM	3893	OH2 H2O	57	22.892	77.131	20.524	1.00 38.72	W
	ATOM	3894	H1 H2O	57	22.303	76.460	20.869	1.00 0.00	W
	ATOM	3895	H2 H2O	57	22.962	76.933	19.591	1.00 0.00	M
	MOTA	3896	он2 н2о	58	38.306	78.270	13.963	1.00 28.31	W
20	MOTA	3897	н1 н20	58	38.886	77.518	14.102	1.00 0.00	W
	ATOM	3898	H2 H2O	58 50	37.541 10.937	77.899 66.046	13.520 49.581	1.00 0.00 1.00 34.62	W W
	ATOM ATOM	3899 3900	OH2 H2O H1 H2O	59 59	11.082	66.814	49.032	1.00 34.02	W
	ATOM	3901	H2 H2O	59	11.613	65.426	49.320	1.00 0.00	W
25	MOTA	3902	OH2 H2O	60	40.917	80.629	-4.294	1.00 39.29	W
	MOTA	3903	H1 H2O	60	40.941	81.265	-5.010	1.00 0.00	M
	MOTA	3904	H2 H2O	60	41.832	80.403	-4.141	1.00 0.00	M
	ATOM	3905	OH2 H2O	61	37.462	76.032	26.379	1.00 35.75 1.00 0.00	W W
30	ATOM ATOM	3906 3907	H1 H2O H2 H2O	61 61	37.318 36.637	75.396 76.059	27.075 25.897	1.00 0.00	W
50	ATOM	3908	OH2 H2O	62	12.194	92.917	7.443	1.00 26.35	W
	ATOM	3909	H1 H2O	62	12.299	93.860	7.569	1.00 0.00	W
	MOTA	3910	H2 H2O	62	12.553	92.749	6.576	1.00 0.00	W
25	ATOM	3911	он2 н2о	63	10.746	48.472	38.472	1.00 32.24	W
35	ATOM	3912	H1 H2O	63	11.037	49.361 47.907	38.660	1.00 0.00	W W
	ATOM ATOM	3913 3914	H2 H2O OH2 H2O	63 64	11.406 24.609	73.773	38.868 41.569	1.00 0.00	W
	ATOM	3915	H1 H2O	64	24.846	74.155	42.417	1.00 0.00	W
	ATOM	3916	H2 H2O	64	25.433	73.754	41.081	1.00 0.00	W
40	MOTA	3917	он2 н2о	65	30.012	66.185	-8.084	1.00 59.17	M
	ATOM	3918	н1 н20	65	30.800	66.596	-7.731	1.00 0.00	W
	MOTA	3919	H2 H2O OH2 H2O	65 66	29.658 31.620	66.832 57.288	-8.697 44.605	1.00 0.00 1.00 33.39	W W
	ATOM ATOM	3920 3921	H1 H2O	66	30.791	56.867	44.837	1.00 0.00	W
45	ATOM	3922	H2 H2O	66	31.532	57.494	43.676	1.00 0.00	W
	MOTA	3923	он2 н2о	67	18.628	82.133	47.615	1.00 41.34	W
	MOTA	3924	H1 H2O	67	19.144	81.345	47.779	1.00 0.00	W
	MOTA	3925	H2 H2O	67	18.596	82.582	48.458	1.00 0.00	W W
50	MOT'A MOTA	3926 3927	OH2 H2O H1 H2O	68 68	26.118 25.731	86.559 86.540	16.428 17.305	1.00 16.27 1.00 0.00	W
50	ATOM	3928	H2 H2O	68	26.764	87.261	16.467	1.00 0.00	W
	ATOM	3929	OH2 H2O	69	6.149	45.998	26.772	1.00 58.89	W
	MOTA	3930	H1 H2O	69	6.523	46.223	27.625	1.00 0.00	W
,	MOTA	3931	H2 H2O	69	5.200	46.037	26.914	1.00 0.00	W
55	ATOM	3932	OH2 H2O	70 70	7.387 7.690	86.734 87.232	36.372 35.613	1.00 26.69 1.00 0.00	W W
	MOTA MOTA	3933 3934	H1 H2O H2 H2O	70 70	6.557	87.153	36.615	1.00 0.00	W
	ATOM	3935	OH2 H2O	71	19.016	50.608	41.020	1.00 20.12	W
	ATOM	3936	H1 H2O	71	19.744	51.094	41.405	1.00 0.00	W
60	ATOM	3937	H2 H2O	71	18.765	51.119	40.254	1.00 0.00	W
	MOTA	3938	он2 н2о	72	22.966	54.069	53.338	1.00 58.44	W
	ATOM	3939 3940	H1 H2O	72 72	22.736 23.801	53.762 54.525	54.218 53.458	1.00 0.00	W W
	MOTA MOTA	3940	H2 H2O OH2 H2O	73	32.935	84.107	34.520	1.00 38.39	W
65	ATOM	3942	H1 H2O	73	32.932	85.062	34.520	1.00 0.00	W
	ATOM	3943	H2 H2O	73	32.932	83.865	33.593	1.00 0.00	W
	ATOM	3944	ОН2 Н2О	74	15.144	50.152	34.763	1.00 15.36	W
	ATOM	3945	Н1 Н2О	74	15.994	49.728	34.642	1.00 0.00	M
70	ATOM	3946	H2 H2O	74	14.963	50.062	35.700	1.00 0.00	W
70	ATOM	3947 3948	он2 н2о н1 н2о	75 75	39.834 39.093	73.517 73.212	37.279 37.805	1.00 21.08 1.00 0.00	W
	ATOM ATOM	3948	H1 H2O H2 H2O	75 75	39.093	74.465	37.239	1.00 0.00	W
	ATOM	3950	OH2 H2O	76	5.621	49.847	47.235	1.00 36.63	W

	ATOM	3951	н1 н20	76	5.682	50.181	48.127	1.00 0.00	W
	ATOM	3952	H2 H2O	76	6.291	50.328	46.749	1.00 0.00	W
	MOTA	3953	ОН2 Н2О	77	20.855	42.150	47.963	1.00 45.89	W
	MOTA	3954	H1 H2O	77	21.782	42.249	47.739	1.00 0.00	W
5	ATOM	3955	H2 H2O	77	20.797	41.284	48.366	1.00 0.00	W
	ATOM	3956	ОН2 Н2О	78	8.330	65.636	18.869	1.00 38.49	W
	MOTA	3957	H1 H2O	78	8.581	66.186	18.125	1.00 0.00	W
	MOTA	3958	H2 H2O	78	8.184	66.254	19.584	1.00 0.00	W
10	ATOM	3959	ОН2 Н2О	79	37.225	73.080	47.421	1.00 42.94	W
10	ATOM	3960	н1 н20	79	37.775	72.667	46.755	1.00 0.00	M
	ATOM	3961	н2 н20	79	36.353	73.108	47.030	1.00 0.00	W
	ATOM	3962	OH2 H2O	80	36.019	65.979	41.953	1.00 34.15	W
	ATOM	3963	H1 H2O	80	36.913	65.996	42.303	1.00 0.00	M
15	ATOM	3964	H2 H2O	80	35.821	65.048	41.856	1.00 0.00	M
15	MOTA MOTA	3965 3966	OH2 H2O H1 H2O	81 81	37.936 38.631	72.735 73.117	-2.902	1.00 58.65	W
	ATOM	3967	H2 H2O	81	37.913	73.277	-2.367 -3.690	1.00 0.00	W
	ATOM	3968	OH2 H2O	82	23.143	50.854	55.229	1.00 0.00 1.00 73.08	W W
	ATOM	3969	H1 H2O	82	22.200	50.699	55.185	1.00 0.00	W
20	ATOM	3970	H2 H2O	82	23.429	50.377	56.008	1.00 0.00	W
	ATOM	3971	OH2 H2O	83	35.270	96.894	-8.992	1.00 46.37	W
	MOTA	3972	H1 H2O	83	34.385	97.082	-9.298	1.00 0.00	W
	MOTA	3973	H2 H2O	83	35.800	97.621	-9.320	1.00 0.00	W
	MOTA	3974	он2 н20	84	34.683	68.046	40.254	1.00 41.87	W
25	MOTA	3975	H1 H2O	84	35.001	67.185	39.981	1.00 0.00	W
	MOTA	3976	H2 H2O	84	33.743	68.022	40.069	1.00 0.00	W
	MOTA	3977	он2 н2о	85	7.937	93.884	8.479	1.00 67.26	W
	ATOM	3978	н1 н20	85	8.505	93.128	8.331	1.00 0.00	W
20	ATOM	3979	H2 H2O	85	7.793	94.250	7.607	1.00 0.00	W
30	ATOM	3980	OH2 H2O	86	41.437	88.270	5.694	1.00 43.07	W
	ATOM ATOM	3981 3982	H1 H2O H2 H2O	86 86	40.650	88.680	6.057	1.00 0.00	W
	ATOM	3983	H2 H2O OH2 H2O	86 87	41.183 18.418	87.355 89.968	5.556 41.295	1.00 0.00	W
	ATOM	3984	H1 H2O	87	19.346	89.974	41.525	1.00 50.98 1.00 0.00	W W
35	ATOM	3985	H2 H2O	87	18.287	89.127	40.854	1.00 0.00	W
J.	ATOM	3986	OH2 H2O	88	15.346	97.033	5.772	1.00 51.64	W
	ATOM	3987	H1 H2O	88	14.535	97.052	5.262	1.00 0.00	W
	ATOM	3988	H2 H2O	88	15.780	96.224	5.502	1.00 0.00	W
	ATOM	3989	OH2 H2O	89	47.753	89.370	-3.781	1.00 37.41	W
40	ATOM	3990	H1 H2O	89	47.756	90.330	-3.781	1.00 0.00	W
	MOTA	3991	H2 H2O	89	47.756	89.133	-4.708	1.00 0.00	W
	MOTA	3992	ОН2 Н2О	90	17.822	70.217	21.038	1.00 53.57	W
	MOTA	3993	H1 H2O	90	18.493	70.890	21.166	1.00 0.00	M
45	ATOM ATOM	3994	H2 H2O OH2 H2O	90	17.151	70.426	21.692	1.00 0.00	M
45	ATOM	3995 3996	H1 H2O	91 91	2.696 1.893	51.590 51.743	41.944 42.439	1.00 46.78	M
	ATOM	3997	H2 H2O	91	3.400	51.837	42.439	1.00 0.00 1.00 0.00	W W
	ATOM	3998	OH2 H2O	95	34.676	75.860	41.073	1.00 39.50	W
	ATOM	3999	H1 H2O	95	35.228	75.793	40.290	1.00 0.00	W
50	ATOM	4000	H2 H2O	95	34.453	74.957	41.286	1.00 0.00	W
	ATOM	4001	ОН2 Н2О	96	39.675	76.625	-9.371	1.00 56.41	W
	ATOM	4002	H1 H2O	96	38.896	76.095	-9.211	1.00 0.00	W
	ATOM	4003	H2 H2O	96	40.385	75.984	-9.456	1.00 0.00	W
	MOTA	4004	он2 н2о	97	18.254	64.042	7.803	1.00 55.42	W
55	MOTA	4005	H1 H2O	97	18.067	64.981	7.768	1.00 0.00	W
	MOTA	4006	н2 н20	97	17.406	63.636	7.982	1.00 0.00	W
	MOTA	4007	OH2 H2O	99	36.040	76.842	46.828	1.00 41.76	W
	MOTA	4008	H1 H2O	99	35.612	76.180	46.290	1.00 0.00	W
60	ATOM	4009	H2 H2O	99	35.367	77.514	46.962	1.00 0.00	W
00	ATOM ATOM	4010 4011	ОН2 Н2О Н1 Н2О	100 100	39.087 39.148		-12.653 -13.482	1.00 50.93	W
	ATOM	4011	H2 H2O	100	39.394		-13.462	$1.00 0.00 \\ 1.00 0.00$	W
	ATOM	4012	OH2 H2O	102	34.315	73.486	18.013	1.00 0.00	W
	ATOM	4014	H1 H2O	102	34.941	73.597	17.299	1.00 0.00	W
65	ATOM	4015	H2 H2O	102	33.483	73.303	17.577	1.00 0.00	W
-	ATOM	4016	OH2 H2O	103	27.629	65.918	7.501	1.00 26.86	W
	MOTA	4017	H1 H2O	103	26.981	65.607	8.130	1.00 0.00	W
	MOTA	4018	H2 H2O	103	28.387	65.342	7.634	1.00 0.00	W
=-	MOTA	4019	он2 н2о	104	30.549		-10.939	1.00 52.39	W
70	MOTA	4020	н1 н20	104	30.082		-11.415	1.00 0.00	W
	ATOM	4021	н2 н20	104	30.530		-11.524	1.00 0.00	W
	MOTA	4022	он2 н2о	105	34.538	71.979	38.560	1.00 30.69	W
	MOTA	4023	H1 H2O	105	33.720	72.302	38.185	1.00 0.00	W

	ATOM	4024	H2 H2O	105	34.317	71.734	39.455	1.00 0.00	W
	ATOM	4025	OH2 H2O	106	31.168	67.923	13.585	1.00 47.02	W
	MOTA	4026	H1 H2O	106	31.193	67.876	14.540	1.00 0.00	W
	ATOM	4027	H2 H2O	106	30.514	68.599	13.396	1.00 0.00	W
5	ATOM	4028	OH2 H2O	107	32.794	63.732	44.548	1.00 33.54	W
5	ATOM	4028	H1 H2O	107	32.546	63.752	45.458		
								1.00 0.00	W
	ATOM	4030	H2 H2O	107	33.687	63.411	44.472	1.00 0.00	M
	ATOM	4031	он2 н2о	108	19.475	88.576	35.346	1.00 35.25	M
4.0	ATOM	4032	н1 н20	108	19.617	88.129	34.508	1.00 0.00	M
10	ATOM	4033	H2 H2O	108	20.226	88.319	35.881	1.00 0.00	M
	MOTA	4034	OH2 H2O	109	23.864	52.354	23.080	1.00 48.58	W
	MOTA	4035	H1 H2O	109	23.166	52.051	22.499	1.00 0.00	W
	MOTA	4036	H2 H2O	109	23.422	52.922	23.711	1.00 0.00	W
	ATOM	4037	ОН2 Н2О	110	31.956	52.640	32.308	1.00 51.66	W
15	ATOM	4038	H1 H2O	110	31.785	52.563	31.371	1.00 0.00	W
10	ATOM	4039	H2 H2O	110	31.086	52.644	32.711	1.00 0.00	W
	ATOM	4040	OH2 H2O	111	16.968	60.681	13.605	1.00 55.65	W
		4041							
	ATOM		н1 н20	111	16.618	60.785	12.718	1.00 0.00	W
20	ATOM	4042	H2 H2O	111	17.849	61.054	13.557	1.00 0.00	W
20	ATOM	4043	ОН2 Н2О	112	38.699	63.142	37.584	1.00 49.09	W
	ATOM	4044	н1 н20	112	37.844	62.845	37.265	1.00 0.00	W
	ATOM	4045	H2 H2O	112	39.233	62.347	37.604	1.00 0.00	W
	ATOM	4046	OH2 H2O	113	31.344	57.427	39.398	1.00 37.73	W
	MOTA	4047	H1 H2O	113	31.126	56.895	40.166	1.00 0.00	W
25	ATOM	4048	H2 H2O	113	30.552	57.933	39.226	1.00 0.00	W
	ATOM	4049	он2 н2о	114	41.350	83.449	-8.714	1.00 60.04	W
	ATOM	4050	H1 H2O	114	41.043	83.752	-9.569	1.00 0.00	W
	ATOM	4051	H2 H2O	114	41.072	84.130	-8.103	1.00 0.00	W
	ATOM	4052	OH2 H2O	115	42.987	90.912	5.698	1.00 36.99	W
30	ATOM	4053	H1 H2O	115	42.742	89.993	5.572	1.00 0.00	W
50									
	MOTA	4054	H2 H2O	115	43.930	90.888	5.853	1.00 0.00	W
	MOTA	4055	OH2 H2O	118	27.240	71.465	53.783	1.00 33.44	W
	MOTA	4056	н1 н20	118	27.239	72.422	53.780	1.00 0.00	W
25	MOTA	4057	н2 н20	118	27.239	71.225	52.853	1.00 0.00	W
35	MOTA	4058	он2 н2о	119	11.225	50.304	22.316	1.00 55.33	W
	ATOM	4059	н1 н20	119	11.185	51.196	22.657	1.00 0.00	W
	MOTA	4060	H2 H2O	119	10.758	50.343	21.483	1.00 0.00	W
	MOTA	4061	OH2 H2O	122	10.516	74.345	13.709	1.00 49.01	W
	MOTA	4062	H1 H2O	122	11.305	74.880	13.770	1.00 0.00	W
40	MOTA	4063	H2 H2O	122	10.747	73.529	14.153	1.00 0.00	W
	ATOM	4064	ОН2 Н2О	123	21.221	81.929	43.450	1.00 35.78	W
	MOTA	4065	н1 н20	123	20.410	82.390	43.227	1.00 0.00	W
	ATOM	4066	H2 H2O	123	21.623	82.469	44.129	1.00 0.00	W
	ATOM	4067	OH2 H2O	125	26.901	87.147	37.889	1.00 67.29	W
45	MOTA	4068	H1 H2O	125	25.985	87.057	37.631	1.00 0.00	W
7.5	ATOM	4069	H2 H2O	125	26.955	86.709	38.739	1.00 0.00	W
	ATOM	4070	OH2 H2O	127	38.005	73.517	7.577	1.00 47.94	
									M
	ATOM	4071	H1 H2O	127	38.835	73.559	7.101	1.00 0.00	M
50	MOTA	4072	H2 H2O	127	38.249	73.253	8.463	1.00 0.00	M
50	MOTA	4073	он2 н2о	130	10.402	70.971	29.298	1.00 20.65	W
	MOTA	4074	н1 н20	130	9.723	71.264	28.687	1.00 0.00	W
	MOTA	4075	H2 H2O	130	10.159	71.385	30.132	1.00 0.00	W
	MOTA	4076	OH2 H2O	132	5.650	81.404	36.223	1.00 27.14	M
	MOTA	4077	н1 н20	132	4.752	81.595	36.500	1.00 0.00	M
55	MOTA	4078	H2 H2O	132	6.195	81.776	36.918	1.00 0.00	W
	ATOM	4079	OH2 H2O	133	13.263	68.119	49.513	1.00 44.60	W
	ATOM	4080	H1 H2O	133	13.357	67.240	49.144	1.00 0.00	W
	ATOM	4081	H2 H2O	133	13.500	68.707	48.799	1.00 0.00	W
	ATOM	4082	ОН2 Н2О	134	19.524		-11.380	1.00 25.22	W
60	ATOM	4083	H1 H2O	134	19.588		-10.742	1.00 0.00	W
00	ATOM	4084	H2 H2O	134	18.725		-11.875	1.00 0.00	W
	ATOM	4085	OH2 H2O	135	40.212	59.845	25.750	1.00 51.43	
									W
	MOTA	4086	H1 H2O	135	41.124	59.975	26.015	1.00 0.00	W
15	ATOM	4087	н2 н20	135	40.235	59.869	24.793	1.00 0.00	W
65	MOTA	4088	он2 н2о	136		100.636	-9.493	1.00 47.67	W
	MOTA	4089	н1 н20	136	19.113	101.141	-9.422	1.00 0.00	W
	MOTA	4090	H2 H2O	136		101.276	-9.363	1.00 0.00	W
	MOTA	4091	ОН2 Н2О	137	7.532	75.485	18.573	1.00 47.00	W
	ATOM	4092	H1 H2O	137	7.714	76.396	18.784	1.00 0.00	W
70	ATOM	4093	H2 H2O	137	6.759	75.513	18.008	1.00 0.00	W
	ATOM	4094	ОН2 Н2О	139	25.465	59.184	52.290	1.00 28.76	w
	ATOM	4095	H1 H2O	139	25.749	59.465	51.420	1.00 0.00	W
	ATOM	4096	H2 H2O	139	24.512	59.318	52.281	1.00 0.00	W
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ATOM 4097 0HZ H20 140 141,960 69,189 7,890 1.00 46,588 N ATOM 4099 H2 H20 140 15,631 69,867 7,781 1.00 0.00 N ATOM 4100 0HZ H20 142 31,562 73,845 26,725 1.00 46,858 N ATOM 4101 H1 H20 142 31,562 73,845 26,725 1.00 46,85 N ATOM 4102 H2 H20 142 31,515 73,845 26,741 1.00 0.00 N ATOM 4102 H20 141 131 141 131 141 141 141 141 141 141										
ATOM 4099 H2 H2O 140		ATOM	4097	он2 н2о	140	14.960	69.189	7.890	1.00 46.58	W
ATOM 4101 MI H20 142 30.757 74.357 26.741 1.00 0.00 WA ATOM 4102 H2 H20 142 30.757 74.357 25.843 1.00 0.00 WA ATOM 4103 H0 H1 H20 143 24.525 81.714 35.572 1.00 45.84 ATOM 4104 H1 H20 143 22.681 81.414 35.237 1.00 0.00 WA ATOM 4105 H2 H20 143 22.681 81.414 35.237 1.00 0.00 WA ATOM 4106 H2 H20 143 25.682 81.714 35.237 1.00 0.00 WA ATOM 4106 H2 H20 144 31.040 37.919 38.155 1.00 49.49 WA ATOM 4107 H1 H20 144 31.040 37.919 38.772 1.00 0.00 WA ATOM 4108 H2 H20 144 31.040 37.919 38.772 1.00 0.00 WA ATOM 4108 H2 H20 144 31.040 37.919 38.772 1.00 0.00 WA ATOM 4109 CH2 H20 144 31.040 37.919 38.772 1.00 0.00 WA ATOM 4109 CH2 H20 145 18.510 37.954 48.055 1.00 49.49 WA ATOM 4108 H2 H20 145 18.510 37.954 48.055 1.00 0.00 WA ATOM 4108 H2 H20 145 18.510 37.954 48.055 1.00 0.00 WA ATOM 4112 H2 H20 148 22.558 37.899 1.00 0.00 WA ATOM 4113 H1 H2 H20 148 22.551 37.919 48.055 1.00 0.00 WA ATOM 4114 H2 H20 148 22.551 37.910 48.055 1.00 0.00 WA ATOM 4114 H2 H20 148 22.551 37.910 48.755 1.00 0.00 WA ATOM 4114 H2 H20 148 22.551 03.913 -10.238 1.00 0.00 WA ATOM 4114 H2 H20 148 22.552 103.913 -10.038 1.00 0.00 WA ATOM 4114 H2 H20 149 30.557 69.088 10.544 1.00 0.00 WA ATOM 4118 H2 H20 149 30.557 69.088 10.544 1.00 0.00 WA ATOM 4118 H2 H20 151 22.397 69.081 11.317 1.00 0.00 WA ATOM 4120 H2 H20 151 22.397 69.081 11.317 1.00 0.00 WA ATOM 4120 H2 H20 151 22.397 69.081 11.317 1.00 0.00 WA ATOM 4121 H2 H20 151 22.384 69.522 -3.393 1.00 0.00 WA ATOM 4121 H2 H20 151 22.388 89.071 1.8.750 1.00 0.00 WA ATOM 4124 H2 H20 151 22.388 89.071 1.00 0.00 WA ATOM 4124 H2 H20 151 22.388 89.071 1.00 0.00 WA ATOM 4124 H2 H20 151 22.3897 69.088 1.00 0.00 WA ATOM 4126 H2 H20 151 22.388 89.071 1.00 0.00 WA ATOM 4127 H2 H20 152 23.394 68.753 1.00 0.00 WA ATOM 4128 H2 H20 152 23.394 68.753 1.00 0.00 WA ATOM 4127 H2 H20 152 23.394 68.753 1.00 0.00 WA ATOM 4128 H2 H20 152 23.997 69.081 1.00 0.00 WA ATOM 4127 H2 H20 152 23.997 69.00 1.00 0.00 WA ATOM 4127 H2 H20 154 1.658 48.999 1.00 0.00 WA ATOM 4128 H2 H20 154 1.658 48.999 1.00 0.00 WA ATOM 4128 H2 H20 164 1.658 48.			4098			14.139	69.668	7.972	1.00 0.00	W
ATOM 4101 HI H20									1.00 0.00	W
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		ATOM	4169	ОН2 Н2О	173	14.724	60.204	54.146	1.00 44.12	W

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10 ATOM 4179 HI H20 176		MOTA		H2 H2O		14.807	76.627	19.465	1.00 0.00	W
ATOM 4181 0H2 H2D 176		MOTA	4178	он2 н2о	176	4.428	65.813	39.483	1.00 41.04	W
ATOM 4181 OH2 H2O 177 15.709 70.351 -5.398 1.00 60.42 WATOM 4182 H1 H2O 177 15.488 69.475 -5.712 1.00 0.00 WATOM 4183 H2 H2O 177 15.488 69.475 -5.712 1.00 0.00 WATOM 4184 OH2 H2O 178 33.370 76.092 46.298 1.00 73.91 WATOM 4185 H1 H2O 178 32.527 75.849 46.800 1.00 73.91 WATOM 4186 H2 H2O 178 32.527 75.849 46.800 1.00 73.91 WATOM 4187 OH2 H2O 179 32.160 88.256 -3.330 1.00 31.03 WATOM 4188 H1 H2O 179 31.330 88.041 -3.759 1.00 0.00 WATOM 4188 H1 H2O 179 31.330 88.041 -3.759 1.00 0.00 WATOM 4189 H2 H2O 179 32.571 88.893 -3.916 1.00 0.00 WATOM 4190 OH2 H2O 180 43.785 91.145 1.609 1.00 42.00 WATOM 4191 H1 H2O 180 44.240 90.654 2.311 1.00 0.00 WATOM 4192 H2 H2O 180 44.241 91.779 1.325 1.00 0.00 WATOM 4192 H2 H2O 180 44.240 90.654 2.311 1.00 0.00 WATOM 4192 H2 H2O 180 44.240 90.654 2.311 1.00 0.00 WATOM 4192 H1 H2O 181 22.846 66.794 2.330 1.00 0.00 WATOM 4194 H1 H2O 181 22.846 66.794 2.330 1.00 0.00 WATOM 4196 OH2 H2O 181 22.846 66.794 2.330 1.00 0.00 WATOM 4196 OH2 H2O 182 7.001 43.954 2.311 1.00 0.00 WATOM 4198 H2 H2O 182 7.001 43.954 2.311 1.00 0.00 WATOM 4198 H2 H2O 182 7.001 43.954 2.311 1.00 0.00 WATOM 4198 H2 H2O 182 7.001 43.954 2.311 1.00 0.00 WATOM 4198 H2 H2O 182 7.001 43.954 2.311 1.00 0.00 WATOM 4198 H2 H2O 182 7.001 43.954 2.316 1.00 0.00 WATOM 4198 H2 H2O 182 7.001 43.954 2.316 1.00 0.00 WATOM 4200 OH2 H2O 183 27.129 44.901 42.342 1.00 61.07 WATOM 4200 H1 H2 H2O 183 26.349 45.392 24.607 1.00 0.00 WATOM 4200 H2 H2O 183 27.383 44.415 43.126 1.00 0.00 WATOM 4200 H2 H2O 184 20.126 62.615 6.341 1.00 50.00 WATOM 4201 H2 H2O 184 20.126 62.615 6.341 1.00 50.00 WATOM 4201 H2 H2O 184 20.126 62.615 6.341 1.00 50.00 WATOM 4201 H2 H2O 184 20.126 62.615 6.341 1.00 50.00 WATOM 4201 H2 H2O 184 20.126 62.615 6.341 1.00 50.00 WATOM 4201 H2 H2O 184 20.126 62.615 6.341 1.00 50.00 WATOM 4201 H2 H2O 184 20.126 62.615 6.341 1.00 50.00 WATOM 4201 H2 H2O 184 20.126 62.615 6.341 1.00 50.00 WATOM 4201 H2 H2O 184 20.126 62.615 6.341 1.00 50.00 WATOM 4201 H2 H2O 184 20.126 62.615 6.341 1.00 50.00 WATOM 4204 H2 H2O 184 20.926 60.938 8.	10								1.00 0.00	W
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ATOM		MOTA	4195							
ATOM		MOTA	4196	OH2 H2O	182	7.003	43.420			
APOM		ATOM	4197	H1 H2O	182	7.061	43.954	25.414	1.00 0.00	W
ATOM 4200 H1 H20 183 26.349 45.392 47.607 1.00 0.00 W ATOM 4201 H2 H20 183 27.383 44.415 43.126 1.00 0.00 W ATOM 4202 OH2 H20 184 20.120 62.615 6.341 1.00 52.42 W ATOM 4203 H1 H20 184 19.717 63.462 6.535 1.00 0.00 W ATOM 4204 H2 H20 184 19.717 63.462 6.535 1.00 0.00 W ATOM 4205 OH2 H20 186 10.038 94.189 -8.999 1.00 40.69 W ATOM 4206 H1 H20 186 10.038 94.189 -8.999 1.00 40.69 W ATOM 4207 H2 H20 186 10.000 93.361 -9.481 1.00 0.00 W ATOM 4208 OH2 H20 187 39.048 78.109 48.627 1.00 0.00 W ATOM 4209 H1 H20 187 39.049 77.870 47.700 1.00 0.00 W ATOM 4210 H2 H20 187 39.049 77.870 47.700 1.00 0.00 W ATOM 4211 OH2 H20 188 29.998 89.503 37.176 1.00 0.00 W ATOM 4211 OH2 H20 188 29.998 89.503 37.176 1.00 0.00 W ATOM 4213 H2 H20 188 29.998 89.503 37.176 1.00 0.00 W ATOM 4214 OH2 H20 188 29.998 89.503 37.176 1.00 0.00 W ATOM 4214 OH2 H20 188 29.998 89.503 37.176 0.00 0.00 W ATOM 4211 H2 H20 188 29.998 89.503 37.176 0.00 0.00 W ATOM 4214 OH2 H20 189 33.213 66.563 16.332 1.00 62.88 W ATOM 4216 H2 H20 189 33.911 66.501 15.788 1.00 0.00 W ATOM 4217 OH2 H20 189 33.911 66.501 15.788 1.00 0.00 W ATOM 4218 H1 H20 190 29.894 60.575 22.671 1.00 41.27 W ATOM 4218 H1 H20 190 29.894 60.575 22.671 1.00 41.27 W ATOM 4218 H1 H20 191 17.592 53.312 44.119 1.00 0.00 W ATOM 4222 H2 H20 199 30.767 60.909 22.889 1.00 0.00 W ATOM 4224 H1 H20 191 17.576 53.699 42.817 1.00 0.00 W ATOM 4225 H2 H20 191 17.576 53.699 42.817 1.00 0.00 W ATOM 4227 H1 H20 191 17.576 53.699 42.817 1.00 0.00 W ATOM 4227 H1 H20 192 35.647 59.655 27.750 1.00 26.14 W ATOM 4227 H1 H20 193 38.108 61.130 29.857 1.00 0.00 W ATOM 4223 H2 H20 193 38.775 60.787 30.053 1.00 36.89 W ATOM 4234 H2 H20 193 38.775 60.787 30.053 1.00 36.89 W ATOM 4236 H1 H20 194 18.791 80.775 53.589 1.00 0.00 W ATOM 4237 H2 H20 195 22.566 69.110 53.558 1.00 0.00 W ATOM 4238 H1 H20 195 22.566 69.110 53.558 1.00 0.00 W ATOM 4230 H1 H20 195 22.566 69.110 53.558 1.00 0.00 W ATOM 4231 H2 H20 194 18.791 80.475 51.853 1.00 0.00 W ATOM 4232 H2 H20 195 22.566 69.110 53.558 1.00 0.00 W ATOM 4237 H2 H20 196 7.904 99.955		ATOM			182	7.912			1.00 0.00	W
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70 ATOM 4237 H2 H2O 196 7.904 98.755 -9.087 1.00 0.00 W ATOM 4238 OH2 H2O 197 15.117 76.593 49.958 1.00 44.24 W ATOM 4239 H1 H2O 197 14.700 76.989 50.724 1.00 0.00 W ATOM 4240 H2 H2O 197 15.264 77.325 49.360 1.00 0.00 W ATOM 4241 OH2 H2O 198 18.738 61.062 5.012 1.00 57.29 W										
70 ATOM 4238 OH2 H2O 197 15.117 76.593 49.958 1.00 44.24 W ATOM 4239 H1 H2O 197 14.700 76.989 50.724 1.00 0.00 W ATOM 4240 H2 H2O 197 15.264 77.325 49.360 1.00 0.00 W ATOM 4241 OH2 H2O 198 18.738 61.062 5.012 1.00 57.29 W										
70 ATOM 4239 H1 H2O 197 14.700 76.989 50.724 1.00 0.00 W ATOM 4240 H2 H2O 197 15.264 77.325 49.360 1.00 0.00 W ATOM 4241 OH2 H2O 198 18.738 61.062 5.012 1.00 57.29 W										
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								5.012		

	ATOM	4243	H2 H2O	198	18.739	60.822	4.084	1.00 0.00	W
	ATOM	4244	OH2 H2O	199	38.023		8.921	1.00 34.68	W
	ATOM	4245	H1 H2O	199	37.201		9.366	1.00 0.00	W
5	MOTA	4246	H2 H2O	199	37.785		8.278	1.00 0.00	W
J	ATOM ATOM	4247 4248	OH2 H2O H1 H2O	200 200	25.176 25.349		39.750 38.807	1.00 36.28 1.00 0.00	W
	ATOM	4249	H2 H2O	200	24.306		39.840	1.00 0.00	W W
	MOTA	4250	OH2 H2O	201	36.509		18.830	1.00 40.11	W
	MOTA	4251	H1 H2O	201	36.944		19.473	1.00 0.00	W
10	MOTA	4252	H2 H2O	201	36.226	76.605	19.326	1.00 0.00	W
	MOTA	4253	он2 н2о	202	15.114		44.318	1.00 26.14	M
	ATOM	4254	н1 н20	202	14.743		43.441	1.00 0.00	W
	ATOM	4255	H2 H2O	202	15.979		44.251	1.00 0.00	W
15	ATOM ATOM	4256 4257	ОН2 Н2О Н1 Н2О	203 203	34.096 34.012		23.788	1.00 48.56	W
13	ATOM	4258	H2 H2O	203	34.943		24.690 23.773	1.00 0.00	M
	ATOM	4259	OH2 H2O	204	28.998		37.915	1.00 48.28	W
	ATOM	4260	H1 H2O	204	29.160		37.122	1.00 0.00	W
	MOTA	4261	H2 H2O	204	29.874		38.257	1.00 0.00	W
20	MOTA	4262	OH2 H2O	205	36.771		17.583	1.00 28.64	W
	MOTA	4263	H1 H2O	205	37.720		17.698	1.00 0.00	W
	MOTA	4264	H2 H2O	205	36.608		16.750	1.00 0.00	M
	MOTA MOTA	4265 4266	ОН2 Н2О Н1 Н2О	206 206	34.304 33.908		22.394 23.266	1.00 37.11	W
25	ATOM	4267	H2 H2O	206	33.588		21.812	1.00 0.00 1.00 0.00	W
20	MOTA	4268	OH2 H2O	207	10.426		38.336	1.00 35.00	W
	MOTA	4269	H1 H2O	207	10.276		39.144	1.00 0.00	W
	MOTA	4270	H2 H2O	207	10.589		38.626	1.00 0.00	W
20	MOTA	4271	он2 н2о	208	33.164		36.564	1.00 43.55	W
30	ATOM	4272	H1 H2O	208	33.931		36.285	1.00 0.00	W
	MOTA MOTA	4273 4274	H2 H2O OH2 H2O	208 209	32.453 9.667		36.012	1.00 0.00	W
	ATOM	4275	H1 H2O	209	9.078		49.799 49.107	1.00 27.66 1.00 0.00	W
	ATOM	4276	H2 H2O	209	10.523		49.554	1.00 0.00	W
35	MOTA	4277	ОН2 Н2О	210	40.620		9.844	1.00 44.74	W
	MOTA	4278	н1 н20	210	39.757		10.104	1.00 0.00	W
	ATOM	4279	H2 H2O	210	40.905		9.157	1.00 0.00	W
	ATOM	4280	OH2 H2O	211	31.114		38.106	1.00 19.43	W
40	ATOM ATOM	4281 4282	H1 H2O H2 H2O	$\frac{211}{211}$	30.669 31.806		38.079 37.457	1.00 0.00 1.00 0.00	W
10	ATOM	4283	OH2 H2O	212	37.410		24.168	1.00 0.00	W
	ATOM	4284	H1 H2O	212	36.615	59.088	23.990	1.00 0.00	W
	ATOM	4285	H2 H2O	212	37.097	57.750	24.508	1.00 0.00	W
4.5	ATOM	4286	он2 н2о	213	37.530		17.584	1.00 25.73	M
45	MOTA	4287	H1 H2O	213	36.642	81.987	17.649	1.00 0.00	M
	MOTA MOTA	4288 4289	H2 H2O OH2 H2O	213 214	38.090 20.562		17.520	1.00 0.00	W
	ATOM	4290	H1 H2O	214	20.362	62.057 62.888	49.243 48.941	1.00 36.13 1.00 0.00	W
	ATOM		H2 H2O	214				1.00 0.00	W
50	ATOM	4292	OH2 H2O	215	38.487		46.984	1.00 28.08	W
	MOTA	4293	H1 H2O	215	38.487		46.981	1.00 0.00	M
	MOTA	4294	н2 н20	215	38.487		46.054	1.00 0.00	W
	ATOM	4295	OH2 H2O	216	4.672	50.241	43.410	1.00 37.85	W
55	ATOM ATOM	4296 4297	H1 H2O H2 H2O	216 216	3.799 5.068	49.905 50.420	43.616 44.262	1.00 0.00 1.00 0.00	W
33	ATOM	4298	OH2 H2O	217	32.087	71.911	7.975	1.00 0.00 1.00 35.72	W W
	ATOM	4299	H1 H2O	217	32.492	72.674	7.563	1.00 0.00	W
	MOTA	4300	H2 H2O	217	31.862	72.205	8.857	1.00 0.00	W
60	MOTA	4301	он2 н2о	218	37.077	71.241	31.371	1.00 28.59	W
60	MOTA	4302	H1 H2O	218	36.181	71.414	31.087	1.00 0.00	W
	ATOM	4303	H2 H2O	218	37.354	70.488	30.847	1.00 0.00	W
	ATOM ATOM	4304 4305	ОН2 Н2О Н1 Н2О	219 219	12.531	78.336	47.863	1.00 38.31	W
	ATOM	4305	H2 H2O	219	11.632 12.440	78.370 78.304	47.538 48.816	1.00 0.00 1.00 0.00	W W
65	ATOM	4307	OH2 H2O	236	5.922	55.713	49.951	1.00 34.41	M
_	ATOM	4308	H1 H2O	236	6.664	55.901	49.382	1.00 0.00	M
	ATOM	4309	H2 H2O	236	6.297	55.224	50.679	1.00 0.00	W
	ATOM	4310	OH2 H2O	237	32.810	50.612	40.203	1.00 42.20	W
70	ATOM	4311	H1 H2O	237	32.021	51.115	40.399	1.00 0.00	W
70	ATOM ATOM	4312 4313	H2 H2O OH2 H2O	237 238	32.497		40.026	1.00 0.00	W
	MOTA	4314	H1 H2O	238		101.122 101.299	-4.447 -5.184	1.00 38.51 1.00 0.00	W W
	ATOM	4315	H2 H2O	238		100.276	-4.652	1.00 0.00	W
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	ATOM	4316	OH2	H20	239	17.874	69.091	56.692	1.00	38.94	W
	MOTA	4317	H1	H20	239	17.874	70.049	56.691	1.00	0.00	W
	MOTA	4318	H2	H20	239	17.874	68.852	55.764	1.00	0.00	W
	MOTA	4319	OH2	H20	240	12.249	77.436	-11.341	1.00	40.18	W
5	MOTA	4320	H1	H20	240	12.960	78.076	-11.282	1.00	0.00	W
	ATOM	4321	H2	H20	240	12.370	77.023	-12.196	1.00	0.00	W
A	MOTA	4322	OH2	H20	241	29.087	65.635	23.981	1.00	33.57	W
	MOTA	4323	H1	H2O	241	28.790	65.725	24.885	1.00	0.00	W
	MOTA	4324	H2	H2O	241	29.863	66.198	23.928	1.00	0.00	W